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February 15, 2002

Ms. Lauren V. Fondahl Biosolids Coordinator Environmental Protection Agency Region IX 75 Hawthorne Street San Francisco, CA 94105-3901

Re: Submittal of Sludge Use and Disposal Information for Calendar Year 2001

Dear Ms. Fondahl:

This letter and supplemental documents serves to comply with 40 CFR Part 503.18 reporting requirements.

Eastern Municipal Water District (EMWD) provides water and sewer service to a population of nearly 480,000 people. EMWD owns and operates five regional water reclamation facilities (RWRFs) within its 550 square mile area. The Sun City RWRF was off-line and influent flows have been diverted to the Perris Valley RWRF.

The following information is provided according to Part 503 regulations:

1. The five RWRFs treating domestic sewage, their design capacity, and corresponding state-issued Wastewater Discharge Permit numbers are:

Name of Facility	Design Capacity	Permit No.
Hemet/San Jacinto RWRF	11.0 MGD	Order No. 88-94
Moreno Valley RWRF	16.0 MGD	Order No. 90-151
Perris Valley RWRF	11.0 MGD	Order No. 90-135
Sun City RWRF	3.0 MGD	Order No. 90-140
Temecula Valley RWRF	8.0 MGD	Order No. 2000-165

Mailing Address: Post Office Box 8300 Perris, CA 92572-8300 Telephone: (909) 928-3777 Fax: (909) 928-6177

Location: 2270 Trumble Road Perris, CA 92570 Internet: www.emwd.org

Ms. Lauren V. Fondahl February 15, 2002 Page 2

- 2. EMWD is the owner and operator of the five RWRFs. We are a "Special District" according to the California Code of Regulations.
- 3. A total of 48,777 wet tons of biosolids were generated by the four RWRFs during calendar year 2001. Approximately 77.27 percent of the biosolids generated were handled by a private contractor (37,692 wet tons) and were either composted to Class A, Exceptional Quality standards (19,147 wet tons) or land applied at Class A or B standards (18,544 wet tons). The name, address, and phone number of the contractor is:

Synagro Technologies, Inc. P.O. Box 7027 Corona, CA 91718-7027 Phone Number: (909) 277-2662

The remaining 23.73 percent of the biosolids generated by the District (11,085 wet tons) were either pasteurized or solar-dried by the District at the Perris Valley RWRF. The biosolids generated from December, 2000 through March, 2001 (2,498 wet tons), were pasteurized and land applied as Class A quality in December, 2001 on 74.5 acres of District-owned land located at the west end of the Perris Valley RWRF. The remaining biosolids generated from March, 2001 through December, 2001 at the Perris Valley RWRF were solar-dried and will be land applied as Class B quality in Needles, California by Synagro Technologies, Inc. in calendar year 2002.

The District is certifying that the biosolids that were land applied by Synagro Technologies in Riverside, San Diego, and Needles met Class B, Table 3 metals and vector attraction reduction requirements according to the Part 503 regulations (refer to the tabular sections of Appendix B). Synagro Technologies, through USA Transport, certified that the biosolids applied in Kern County met Class A standards. Enclosed with this report are copies of the certification statements for the Temecula Valley, Hemet/San Jacinto, and Moreno Valley RWRFs, and the appropriate supporting data. The Perris Valley RWRF biosolids met Class A standards when the District applied to land near the Perris Valley RWRF, and a copy of the certification is enclosed. The certification statement contains a minimum of 73 percent solids in the Class A biosolids, but the actual percent solids was at least 91.9 when land applied, therefore meeting the minimum requirement of 75 percent. The remainder of the Perris Valley RWRF biosolids have been certified as Class B (also enclosed), and will be land applied in Needles in calendar

Ms. Lauren V. Fondahl February 15, 2002 Page 3

year 2002.

If you need any other information, please contact Michael A. Luker, Assistant General Manager, Operations and Maintenance, at (909) 928-3777, ext. 6255, or Jayne Joy, P.E., Director of Environmental and Regulatory Compliance, ext. 6241.

Sincerely,

David Mongas For Anthony J. Pack

General Manager

cc: Michael A. Luker, Assistant General Manager, Operations and Maintenance David Morycz, Manager, Environmental Services Anne Briggs, Senior Environmental Compliance Analyst

J:\WORDPROC\WP\ENVIRON\BRIGGS\2001.EPA

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# APPENDIX A

**BIOSOLIDS PRODUCTION** 

FOR

CALENDAR YEAR

2001

# **EMV** Biosolids Reuse Report for 2001

	•	Hemet-San Jacinto	Moreno Valley	Perris Valley	Temecula Valley	Total
		Product Amount	Product Amount	Product Amount	Product Amount	Product Amount
Composted	Jan	133.98	499.58	319.61	340.35	1,293.52
	Feb	162.02	381.28	331.48	328.21	1,202.99
	Mar	120.78	421.35	817.39	313.64	1,673.16
	Apr	53.49	136.77	806.55	95.56	1,092.37
	May	22.24	540.39	644.36	126.03	1,333.02
	Jun		690.63	692.52	77.54	1,460.69
	Jul		752.33	842.08	54.82	1,649.23
	Aug		733.12	714.11	157.59	1,604.82
	Sep		630.68	1,238.02	245.13	2,113.83
	Oct	18.82	617.82	944.34	74.1	1,655.08
	Nov	26.24	859.82	992.91	89.96	1,968.93
	Dec		760.61	1,209.57	130.06	2,100.24
	Total	537.57	7,024.38	9,552.94	2,032.99	19,147.88
Land Application of Clase in Kern	Jun	128.95			297	425.95
County	Jul				764.27	764.27
∫.	Aug				654.33	654.33
·*	Sep				98.12	98.12
	Total	128.95			1,813.72	
Land Application of Class B in	Nov	390.49			445.98	836.47
Needles CA	Dec	967.92			906.51	1,874.43
	Total	1,358.41			1,352.49	2,710.9
Land Application of Class B in	Jan	854.15	800.51		526	2,180.66
Riverside County	Feb	686.25	791.68		435.79	1,913.72
·	Mar	970.48	958.37		419.52	2,348.37
	Apr	766.13	1,176.43		731.8	2,674.36
	May	157.34	795.61		711.62	1,664.57
	Jun	179.93			240.41	420.34
	Jul	151.25				151.25
	Aug				15.68	15.68
	Total	3,765.53	4,522.6		3,080.82	11,368.95
Land Application of Class B in San	Sep	240.91			465.4	706.31
Diego County	Oct	467.92			868.61	1,336.53
	Nov	202.16			276.73	
	Total	910.99			1,610.74	
Total		6,701.45	11,546.98	9,552.94	9,890.76	37,692.13

MONTH	Pasteurized	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Total Pounds	r asiculizeu	259,709	164,564	80,256	0	0	0	0	0	0	0	0	0	
Total Tons		129.9	82.3	40.1	o	0	0	0	0	0	0	0	0	
Percent Solids		15.1	15.6	16	o	0	0	0	0	0	0	0	0	
Wet Tons	Unpasteurized	860	528	251	0	0	0	0	0	0	0	0	0	1,639
Total Pounds	dirt drying beds	73,690	105,432	44.004							-		v	1,003
		73,090	105,432	44,394	0	0	0	0	0	0	0	0	0	
Total Tons		36.8	52.7	22.2	0	0	0	0	0	0	0	0	0	
Percent Solids		13.8	13.8	14.7	0	0	0	0	0	0	0	0	0	
Wet Tons	Unpasteurized	267*	382*	151*	0	0	0	0	0	0	0	0	0	800
Total Pounds	to Synagro	61,374	93,564	248,000	215,600	204,400	181,256	212,600	198,000	268,800	233,200	266,208	305,900	
Total Tons		30.7	46.8	124	107.8	102.2	90.6	106.3	99	134.4	116.6	133.1	153	
Percent Solids		13.5	13.8	14.7	14	14.2	13.9	13.2	13.9	14	13.1	14.1	13.3	
Wet Tons	Unpasteurized	227	339	843	770	720	652	805	712	960	897	944	1150	9,019
Total Pounds	to Asphalt	0	0	163,170	209,158	62,400	270,216	303,000	362,600	265,739	270,800	250,698	222,077	
Total Tons		0	0	81.6	104.6	31.2	135.1	151.5	181.3	132.9	135.4	125.3	111	
Percent Solids		0	0	14.7	14	14.2	13.9	13.2	13.9	14	13.1	14.1	13.3	
Wet Tons		0	0	555	747	219	972	1148	1305	949	1027	889	835	8,646
*Dirt drying														-,-
Distribution	Bed #1	Bed #2	Bed #3	Bed #4	Bed #5	Bed #6	Bed #7	Bed #8	Bed #9	Bed #10	Bed #11	Bed #12	Total wet tons	00.404
January February	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	all catagories for 2001	20,104
March	0	0	101 wet tons	0	0	281 wet tons	0	0	0	0	0	0	101 2001	
	0	23 wet tons	70 wet tons	58 wet tons	0	0	0	0	Ó	Ö	ŏ	ŏ		
April	0	0	0	0	0	0	0	0	ō	Ö	ő	0		
May	0	Ō	0	0	0	0	0	Ó	Ö	Ö	ŏ	Ô		
June	0	o	0	0	0	0	0	Ö	ŏ	0	Ô	0		
July	0	0	0	0	0	0	Ö	ō	ŏ	0	Ô	o o		
August	0	0	0	0	0	0	Ō	Ö	ő	O O	o o	0		
September	0	0	0	0	0	0	Ō	ő	ŏ	0	0	0		
October	0	0	0	0	0	Ö	ő	ő	0	0	0	-		
November	0	0	0	0	0	Ō	Ö	ő	Ö	0	0	0		
December	0	0	0	0	Ō	Ŏ	ő	Ô	ň	0	0	0		
					-	-	•	•	U	U	U	U		

#### office\qpw\slgprd01

11,085 wet tons pasteurized or solar dried sludge derived from 20,104 (total) - 9,019 unpasteurized to Synago

## ANNUAL CERTIFICATION STATEMENTS

# PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY

# Notice and Necessary Information

Facility Name	e:	RRIS VALLE		-	•	arers of C Mon	itoring Pe		1/1/01 t	o 12/31/01	
1. Pollutar	nt and Ni	trogen c	oncentra	tions (re	port resu				is. Attacl	n lab ana	lyses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N
Avg Max	5.05 6.2	1.45	362.5 410	12.98	2.9	8.083	40.75 62	9.75 15	470 510	45700 49400	14190
Table 3	41	39	1500	300	17	na	420	100	2800	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na
2. Class A							1			<del></del>	
ii) testir compX_ heat heat paste alkal	s A: fecal ng: enteric Class costing: w Class treatment Class drying: te Class eurization: Class i treatmen ch times to	coliform < virus = A: enteric indrow: BAP; in ves A: windro	pfu virus < 1 days ssel: w: > 15 da n) minutes/ opropriate degrees - 80 degree d v 70 degree above 12 ured); % s	/gram OR /4 grams, pfu/r gram at to days at ays; > 55 c /hours/day equation s F/C; % s es C, % s egrees C/ es C, time = solids =	viable helps, viable helps, viable to the degrees Cys; 158 and minin olids = olids > 90 (F, time = 5 > 30 min (attach times)	Ila < 3 mp. Iminth ova helminth cegrees F/C  , 5 turns. (min) degr num time i	n/4 grams  = ova < 1/4 g c; tu rees F/C ( SAP, in ve ees F; 15 n 503.32(a	/4 gram grams urns (attact (attach log essel: > 3(min) % a) Alternat	ch logs of t is of temps days; > 55 o solids, he ive 1, A - [	emps, turr s) degrees eating met O)	C hod:
VAF VAF Optic	on 1: % VA: VSR > 3 on 2/3: Be R: addition on 4: SOUR - 3 on 5: Com R: temp > 3 on 6: time R: pH 12 on 7: % so R: stabilize on 9/10: A R: inject ir on: I certion in accessibility.	Sin =	test: % VS 17% after 2/2/hr/gram days as C for 14 ed: rs after alk(min) 75% \ incorporate inporate in penalty of ith a syste on my inqu	GR =40 days(a 40 days(a 40 days, w/5 at temps of days, w/5 pH after stabilizer /AR: unstater in6 hrs, < 8 flaw, that m designer interpretation	_ after inaerobic)  ht)  if to i days > 4 ir 2 hours in, 11.5 f zation met abilized so hours hours aft  this docur ed to assu person or	days , < 15% a  c de 5 degrees = pH for addition thod: blids > 90% er treatme ment and a ure that que to persons w	grees F/C C after 22 ho nal 22 hrs Option	ours = on 8: % so senents were sonnel proge the sys	mes/temps  blids =  prepared perly gath tem or the	under my er and eve persons c	aluate the directly
accurate, a possibility o	nd comple of fine and	ete. I am a 'imprisonn	ware that nent for kn	there are owing vio	significan lations.	t penalties	s for subm	itting false	informatio	on, includir	ng the
E-mail: <u>lu</u>						/				ext. 4	235

# QUARTERLY SLUDGE REPORT: 1/1/01 to 12/31/01 PERRIS VALLEY #2 BARDENPHO RWRF

		METALS					METALS		
		ARSENIC				N	OLYBDENUN	1	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
3/8/01	5.8	0.87	5.8	4.17	3/8/01	4.4	4.4	7	5.73
6/7/01	5				6/7/01	5.4			
9/11/01	<5				9/11/01	7			
12/3/01	0.87				12/3/01	6.1			
		Arsenic (NP)				M	olybdenum (N	P)	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
6/26/01	2.4	2.4	6.2	4.3	6/26/01	6.8	6.8	12	8.62
7/13/01	6.2				6/26/01	7			
		CADMIUM			7/13/01	8.7			
Date:	Results:	Minimum	Maximum	Average	7/13/01	12			
3/8/01	1.1	0.97	1.8	1.22			NICKEL		
6/7/01	1.8				Date:	Results:	Minimum	Maximum	Average
9/11/01	1				3/8/01	62	15	62	31
12/3/01	0.97				6/7/01	28			
		Cadmium (NP	)		9/11/01	15			
Date:	Results:	Minimum	Maximum	Average	12/3/01	19			
6/26/01	1	1	1.2	1.1			Nickel (NP)		
7/13/01	1.2	·			Date:	Results:	Minimum	Maximum	Average
77 10701		COPPER			6/26/01	23	16	23	19.5
			B. F 1		7/13/01	16			
Date:	Results:	Minimum	Maximum	Average			SELENIUM		
3/8/01	350	220	350	272.5	Data	Desulter	Minimum	Maximum	Avorono
6/7/01	240				Date:	Results:	6	15	Average 8.98
9/11/01	280				3/8/01 6/7/01	<7.4 <15	0	15	0.90
12/3/01	220	0 (MD)			9/11/01	6			
		Copper (NP)			12/3/01	7.5			
Date:	Results:	Minimum	Maximum	Average	12/3/01		Selenium (NP	Λ.	
6/26/01	340	340	410	375		***************************************		***************************************	
7/13/01	410				Date:	Results:	Minimum	Maximum	Average
		LEAD			6/26/01	6.3	2.7	6.3	4.5
Date:	Results:	Minimum	Maximum	Average	7/13/01	2.7			
3/8/01	9.1	5.8	18	10.73			ZINC	~~~	***************************************
6/7/01	18				Date:	Results:	Minimum	Maximum	Average
9/11/01	10				3/8/01	360	320	490	382.5
12/3/01	5.8				6/7/01	490			
		Lead (NP)			9/11/01	360			
Date:	Results:	Minimum	Maximum	Average	12/3/01	320			
6/26/01	7.5	7.5	8.4	7.95			Zinc (NP)		
7/13/01	8.4	7.0	0.4	7.00	Date:	Results:	Minimum	Maximum	Average
7710/01	0.4	MERCURY			6/26/01	390	390	510	450
D-4-	D		Marrian	A	7/13/01	510	000	0.0	
<b>Date:</b> 3/8/01	Results: <4	Minimum <4	Maximum 4	Average 4			NON-METAL	S	
6/7/01	<4	<b>\</b> 4	7	7					
	<4 <4						ludge Detenti		
9/11/01					Date:	Results:	Minimum	Maximum	Average
12/3/01	<4	Moroum: (NID)			1/5/01	30	30	35	31.57
		Mercury (NP)	***************************************	<u>-</u>	1/6/01	30			
	Daniella.	Minimum	Maximum	Average	1/7/01	30			
<b>Date:</b> 6/26/01	Results:	1.8	1.8	1.8	1/8/01	35			

# QUARTERLY SLUDGE REPORT: 1/1/01 to 12/31/01 PERRIS VALLEY #2 BARDENPHO RWRF

	N	ION-METAL	S		NON-METALS					
	Past. S	ludge Detenti	on time			Pa	st. Sludge Te	mp		
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average	
1/9/01	35	30	35	31.57	1/28/01	158				
1/10/01	30				2/15/01	160				
1/17/01	30				2/16/01	160				
1/18/01	30				2/17/01	158			*	
1/19/01	30				2/18/01	158				
1/20/01	30				2/20/01	158				
1/21/01	35				2/21/01	158				
1/22/01	30				2/22/01	158				
1/23/01	30				2/23/01	158				
1/24/01	30				2/24/01	158				
1/25/01	30				2/25/01	158				
1/26/01	30				2/26/01	158				
1/27/01	30				2/27/01	158				
1/28/01	30				2/28/01	160				
2/15/01	30				3/1/01	158				
2/16/01	30				3/2/01	158				
2/17/01	33				3/3/01	158				
2/18/01	33				3/4/01	158				
2/20/01	30						monella (P) B	ed 9		
2/21/01	30				Data	Results:	Minimum	•••••	A	
2/22/01	30				Date:			Maximum	Average	
2/23/01	30				8/10/01	<0.8	<0.8	0.9	0.83	
2/24/01	35				8/10/01	<0.8				
2/25/01	30				8/10/01	<0.9				
2/26/01	35				************************************	Saln	nonella (P) Be	d SE	***************************************	
2/27/01	35				Date:	Results:	Minimum	Maximum	Average	
2/28/01	30				7/13/01	<1	<1	1	1	
3/1/01	35				7/13/01	<1				
3/2/01	34				7/13/01	<1				
3/3/01	35					Tota	al Solids (NP)	Mix		
3/4/01	35				Date:	Results:	Minimum	Maximum	Average	
		st. Sludge Te	mn		6/26/01	79	79	94.7	86.85	
		·····	······································		7/13/01	94.7	7.5	34.7	00.03	
Date:	Results:	Minimum	Maximum	Average	7/13/01		tal Calida (D)	N.A.S.		
1/5/01	158	158	166	158.63	•	***************************************	tal Solids (P)	······································		
1/6/01	158				Date:	Results:	Minimum	Maximum	Average	
1/7/01	158				6/26/01	73	73	91.9	82.45	
1/8/01	158				7/13/01	91.9				
1/9/01	158					Tota	al Solids BP-0	Cake		
1/10/01	158				Date:	Results:	Minimum	Maximum	Average	
1/17/01	158				3/8/01	13	13	16.6	14.59	
1/18/01	158				6/7/01	14	10	10.0	14.00	
1/19/01	158				6/19/01	15				
1/20/01	158				6/19/01	15				
1/21/01	158				6/19/01	15				
1/22/01	158									
1/23/01	158				6/19/01	14				
1/24/01	158				7/13/01	16.6				
					7/13/01	15.1				
1/25/01	100									
1/25/01 1/26/01	166 166				7/13/01	14.9				
1/25/01 1/26/01 1/27/01	166 158				7/13/01 7/13/01	14.9 15.2				

## QUARTERLY SLUDGE REPORT: 1/1/01 to 12/31/01

PERRIS VALLEY #2 BARDENPHO RWRF

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tota			
Date:	Results:	Minimum	Maximum	Average
7/26/01	15	13	16.6	14.59
7/26/01	14.4			
7/26/01	15.2			
7/26/01	15.2			
9/11/01	14.1			
9/19/01	15			
9/19/01	14			
12/3/01	13			
		NUTRIENTS		
	AM	IMONIA AS N	(P)	
Date:	Results:	Minimum	Maximum	Average
6/26/01	23000	12000	23000	17500
7/13/01	12000			
	N	IH-4 As N (NP	')	
Date:	Results:	Minimum	Maximum	Average
6/26/01	12700	9050	12700	10875
7/13/01	9050			

Minimum

42000

TKN (P)

Minimum

54000

Maximum

49400

Maximum

72400

**Average** 

45700

**Average** 

63200

**NON-METALS** 

Date:

6/26/01

7/13/01

Date:

6/26/01

7/13/01

Results:

49400

42000

Results:

72400

54000



#### Board of Directors

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Director of the Metropolitan Water District of So. Calif. Marion V. Ashley

Treasurer
Joseph J. Kuebler, CPA

Legal Counsel
Redwine and Sherrill

October 31, 2001

Mr. Brent McManigal Synagro of California P.O. Box 7027 Corona, CA 92878-7027

Dear Mr. McManigal:

Attached please find the certification statement for the Perris Valley RWRF for solar-dried biosolids stored since March of 2001.

If you have any questions regarding these reports, please contact Jayne Joy at ext. 6241.

Sincerely,

Mike Luker

CC:

Assistant General Manager, Administration and Maintenance

David Morycz, Manager of Regulatory Services

Anne Briggs, Senior Environmental Compliance Analyst

J:\WORDPROC\WP\ENVIRON\BRIGGS\CERTCOVE.SLD

Mailing Address: Post Office Box 8300 Perris, CA 92572-8300 Telephone: (909) 928-3777 Fax: (909) 928-6177

Location: 2270 Trumble Road Perris, CA 92570 Internet: www.emwd.org

#### **Notice and Necessary Information** To be Completed by Preparers of Class A Biosolids

Facility Name:	PERRIS VALLEY #2 BARDENPHO RWRF	Monitoring Period	1/1/01 to 9/30/01
racilly maille.		wontoning i enou	

#### 1. Pollutant and Nitrogen concentrations (report results on 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N
Avg Max	4.317 6.2	1.25	349.2 450	10.31 18	2.517 4	8.623 12	20.58	6.767 15	453.3 520	45700 49400	14190 23000
Table 3	41	39	1500	300	17	na	420	100	2800	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na

		fecal coliform = 51,739 mpn/gram salmonella = (maximum) mpn/4 grams
		Class A: fecal coliform < 1000 mpn/gram OR salmonella < 3 mpn/4 grams
ii)		testing: enteric virus =pfu/4 grams, viable helminth ova =/4 grams
., -		Class A: enteric virus < 1 pfu/r grams, viable helminth ova < 1/4 grams
		composting: windrow: days at to degrees F/C; turns (attach logs of temps, turns)
		SAP; in vessel: days at to degrees F/C (attach logs of temps)
		Class A: windrow: > 15 days; > 55 degrees C, 5 turns. SAP, in vessel: > 3 days; > 55 degrees C
		heat treatment: 30 (min) minutes/hours/days; (min) degrees F; (min) % solids, heating method:
		Class A: (use appropriate equation and minimum time in 503.32(a) Alternative 1, A - D)
_		heat drying: temp: degrees F/C; % solids =
		Class A: temp > 80 degrees C, % solids > 90 %
		pasteurization: temp = degrees C/F, time =
		Class A: temp > 70 degrees C, time > 30 min
		alkali treatment: time pH above 12 = (attach times measured); time temp > 52 degrees C =
		(attach times temp measured); % solids =
		Class A: pH > 12 for > 72 hours, temp > 52 degrees C for 12 hours (while pH > 12); air dried until solids >
	.,	50%
-	<u> </u>	other: (describe parameters) air drying-greater Man 90 days and greater Man 0°C
2	Vo	ctor Attraction Reduction:
ა.	VE	Option 1: % VS <sub>in</sub> = % VS <sub>out</sub> = % VSR =
	_	VAR: VSR > 38%
		Option 2/3: Bench scale test: % VSR = after days
		VAR: additional VSR < 17% after 40 days(anaerobic), < 15% after 30 days (aerobic)
		Option 4: SOUR =
		VAR: SOUR < 1.5 mg O <sub>2</sub> /hr/gram (dry weight)
		Option 5: Composted days at temps of todegrees F/C (attach times/temps)
		VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
		Option 6: time alkali added: pH after 2 hours = pH after 22 hours =
		VAR: pH 12 for 2 hours after alkali addition, 11.5 for additional 22 hrs
,	<b>X</b> _	Option 7: % solids = \$3 _(min) Stabilization method: Option 8: % solids =
	`-	VAR: stabilized solids > 75% VAR: unstabilized solids > 90%
		Option 9/10: Applier will incorporate in hours
		VAR: inject in 1 hr, incorporate in 6 hrs, < 8 hours after treatment process
		,,,,,,,
	Certif	fication: I certify, under penalty of law, that this document and all attachments were prepared under my direction
		pervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the
		nation submitted. Based on my inquiry of the person or persons who manage the system or the persons directly

responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations,

MILE LUCA ASSISTANT

Name and Official Title: Anthony J. Pack, Deputy General Manager Phone: (909) 928-3777 ext. 4235

Date: 10/31/6/ E-mail packa emwd.org Signature:

# GEOMETRIC MEAN Fecal Coliform/g Total Solids

GEOMETRIC MEAN
Fecal Coliform/g Total Solids

	Tecar comorning rotal sollas										
	FECAL	TOTAL	FECAL RESULT								
LIMS NUMBER		SOLIDS	MPN/g TS								
	MPN/100g		(Fecal Result divided by	Log of previous							
			Total Solids)	column							
E01102311-01	500,000	91.49	5,465	3.74							
E01102311-02	1,100,000	91.14	12,069	4.08							
E01102311-03	220,000	92.94	2,367	3.37							
E01102311-04	1,300,000	90.91	14,300	4.16							
E01102311-05	116,000	91.74	1,264	3.10							
E01102311-06	40,000	93.25	429	2.63							
E01102311-07	300,000	90.95	3,299	3.52							
			Arithmetic Avg of Logs	3.51							
	GEOMETRIC N	MEAN	(Anti-log of Arith. Avg.)	3,270 = <b>3.3E+03</b>							

**APPROVED** 

OCT 26 2001

AMY MORA

PVUPSW503-2 OCTOBER 2001

# GEOMETRIC MEAN Fecal Coliform/g Total Solids

# **GEOMETRIC MEAN**

Fecal Coliform/g Total Solids

	1 coar comorning rotal conds											
	FECAL	TOTAL	FECAL RESULT									
LIMS NUMBER	COLIFORM	SOLIDS	MPN/g TS									
	MPN/100g		(Fecal Result divided by	Log of previous	;							
			Total Solids)	column								
E01102311-08	8,000,000	89.70	89,186	4.95								
E01102311-09	8,000,000	92.57	86,421	4.94								
E01102311-10	130,000	92.85	1,400	3.15								
E01102311-11	8,000,000	91.75	87,193	4.94								
E01102311-12	1,100,000	92.22	11,928	4.08								
E01102311-13	5,000,000	92.41	54,107	4.73								
E01102311-14	3,600,000	92.12	39,079	4.59								
			Arithmetic Avg of Logs	4.48								
	GEOMETRIC ME	AN	(Anti-log of Arith. Avg.)	30,352 =	3.0E+04							

PVUPNW503 OCTOBER 2001

# GEOMETRIC MEAN Fecal Coliform/g Total Solids

# GEOMETRIC MEAN Fecal Coliform/g Total Solids

			ing rotal solids			
	FECAL	TOTAL	FECAL RESULT			
LIMS NUMBER	COLIFORM	SOLIDS	MPN/g TS			
	MPN/100g		(Fecal Result divided by	Log of pre	eviou	S
			Total Solids)	column		
E01102311-15	30,000,000	88.87	337,572	5.53		
E01102311-16	8,000,000	88.67	90,222	4.96		
E01102311-17	13,000,000	89.10	145,903	5.16		
E01102311-18	800,000	90.11	8,878	3.95		
E01102311-19	700,000	89.81	7,794	3.89	<del></del>	
E01102311-20	11,000,000	90.22	121,924	5.09		
E01102311-21	2,200,000	83.10	26,474	4.42		
			Arithmetic Avg of Logs	4.71		
	GEOMETRIC ME	EAN	(Anti-log of Arith. Avg.)	51,739		5.2E+04

PVUPMW503 OCTOBER 2001 QUARTERLY CERTIFICATION STATEMENTS (January – March, 2001)

HEMET/SAN JACINTO, MORENO VALLEY AND TEMECULA VALLEY REGIONAL WATER RECLAMATION FACILITIES



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Director of the Metropolitan Water District of So. Calif. Marion V. Ashley

oseph J. Kuebler, CPA

Legal Counsel Redwine and Sherrill April 24, 2001

Mr. Mark Gray

Regional Technical Services Manager

Synagro of California

P.O. Box 7027

Corona, CA 92878-7027

Dear Mr. Grey:

Attached please find the certification statements for the first quarter (January through March, 2001) for Hemet/San Jacinto, Temecula Valley, and Moreno Valley RWRFs. As per our attached e-mail to Jeff King of your company on January 13, 2001, the Moreno Valley RWRF failed to meet the proper volatile solids reduction for this time period. It is our understanding that regulatory compliance was met by field incorporation within 6 hours.

If you have any questions regarding these reports, please contact Mike Luker at (909) 928-3777, ext. 6255, or Jayne Joy at ext. 6241.

Sincerely,

Anthony J. Pack

Deputy General Manager, Administration and Operations

CC:

Mike Luker, Director of Water Reclamation David Morycz, Manager of Regulatory Services Anne Briggs, Senior Environmental Compliance Analyst

J:\WORDPROC\WP\ENVIRON\BRIGGS\CERTCOVF SLD

Post Office Box 8300 Perris, CA 92572-8300 Telephone: (909) 928-3777 Fax: (909) 928-6177 2270 Trumble Road Perris, CA 92570 Location: Internet: www.emwd.org

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Na	me:		MORENO	VALLEY	RWRF	: 	Mo	nitoring l	Period	1/1/	01 to 3/31/01	1
1. P	ollutant	and Nitr	ogen con	centratio	ons (Re	eport res	sults on 1	00% dry	v weight b	oasis. Atta	ach lab anal	yses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N	% solids
Avg	11.5	₹0.92	280	10	∢ 3	4.84	45.5	<b>∢</b> 6.5	290	6.06%	0.64%	15.87
Max	21	<0.94	320	10	<3	6	49	<6.6	310	6.06%	0.64%	17
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
Sampling d	late(s): _		1/	I/01 to 3/	31/01							
aero CI dryir CI X feca CI Ilime Cli Ve X Optic VA Optic	bic digerals bick digerals B: the digerals B:	restion for cime (day setion for for for for geometrication: ph H 2 hou raction F SR = R 38% Bench setional V: DIR < 1.5 pmposter or > 40 dene alkali = 12 for 2 solids = abilized so solids = abilized Applier tion with tify, und dance with are signist.	ys) ≥ 120	when design the perstion subtraction of the perstion of the persti	inp, degraph, degraph, degraph, degraph, degraph, degraph, degraph, so the sample addition of lime in the sample at temperate with the sample at the sample	days at prees C) and the control of	for times for times ch records C = 210,000 2,000,000  dinimum)  fter	day  betweer  to  betwee  of date  of (maxi  mpn  day  5% after  of  rees C  multiple  day  switch  my know  mation,	tachment onnel proesystem viedge ar including	(aerobic)  (aerobic)  es F/C (at hours =  s were preperly gather or the pend belief, to the possi	tach times/t	
												1
one: ( <u>9</u>	<del>109</del>	<u>) 928</u>	<u>-3777 е</u>	xt. 4235	<u> </u>			E-Mail <u>:</u>	packt	<u>@emwd.o</u>	rg	
nature:					) =					D . 1	41	27/01

# QUARTERLY SLUDGE REPORT: 1/1/2001 to 3/31/2001

MORENO VALLEY RWRF

		METALS					NON-METAL	.S	
		ARSENIC					% Vol Reduc	e	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
1/10/2001	21	2	21	11.5	1/15/2001	28			Avelage
3/9/2001	2				1/18/2001	27.77			
		CADMIUM			1/22/2001	24.84			
D-4		······································			1/25/2001	29.11			
Date: 1/10/2001	Results:	Minimum	Maximum	Average	1/29/2001	26.79			
3/9/2001	<0.91	<0.91	0.94	0.93	2/1/2001	27.77			
3/9/2001	<0.94				2/5/2001	22.39			
		COPPER			2/15/2001	24.21	***		
Date:	Results:	Minimum	Maximum	Aver	2/26/2001	19.6			
1/10/2001	320	240	320	Average	3/1/2001	16.38			
3/9/2001	240	240	320	280	3/5/2001	35.79			
					3/8/2001	19.25			
		LEAD			3/12/2001	19.68			
Date:	Results:	Minimum	Maximum	Average	3/19/2001	41.68			
1/10/2001	10	10	10	10	3/22/2001	39.22			
3/9/2001	10			10			AMMONIA AS	N	
		MERCURY			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	1/10/2001	6400	6400	6400	6400
1/10/2001	<3	<3	3	3		RD1_0	CAKE-TOTAL S	OL IDE	
3/9/2001	<3			-	Date:	······································	······		
		Mai vanetuu			1/10/2001	Results:	Minimum	Maximum	Average
	***************************************	MOLYBDENUI	M		1/11/2001	17	15	17	15.88
Date:	Results:	Minimum	Maximum	Average	1/12/2001	17			
/10/2001	3.7	3.7	6	4.85	1/15/2001	15 16			
3/9/2001	6				1/16/2001	15			
		NICKEL			1/17/2001	15			
Date:	DH	······			1/18/2001	16			
	Results:	Minimum	Maximum	Average	3/9/2001	16			
/10/2001	42	42	49	45.5	0,0,2001	10			
3/9/2001	49						GEOMEAN		
		SELENIUM			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	1/18/2001	210000	210000	210000	210000
/10/2001	<6.4	<6.4	6.6	6.5	<u></u>		ı		
3/9/2001	<6.6		0	0.0			Org-N (NP)		
······					Date:	Results:	Minimum	Maximum	Average
		ZINC			1/10/2001	60600	60600	60600	60600
Date:	Results:	Minimum	Maximum	Average			TKN		
/10/2001	310	270	310	290	Date:	Results:	Minimum	Maximum	Λυσ====
/9/2001	270				1/10/2001	67000	67000	67000	Average 67000
		ION-METALS	5		<u> </u>		2.000	0,000	5,000
		% Vol Reduce							
Date:	Results:	Minimum	Maximum	Average					
/4/2001	33.8	16.38	41.68320762	27.31					
/8/2001	23.61								
11/2001	31.87								

#### Briggs, Anne

From:

Meacham, Robert

Sent:

Wednesday, January 17, 2001 1:24 PM

To:

Luker, Mike

Cc:

Ingersol, Steve; Wippler, Mark; Briggs, Anne

Subject:

FW: VOL SOLIDS REDUCTION

----Original Message-----

From: King, Jeffrey [mailto:JKing@SYNAGRO.com]

Sent: Tuesday, January 16, 2001 10:53 PM

To: 'Meacham, Robert'

Subject: RE: VOL SOLIDS REDUCTION

Robert, to follow up on this.

By not meeting the Class B requirement of 38% Volitol Solids Reduction, it requires me to have this material spread and incorporated within a 6 hour time period for a land application site. It does not eliminate the use of it in the field, it only restricts the way we handle it. The concern here is to minimize vector attraction since the material is not fully stabilized. If the pathogen levels were to increase beyond EPA 503 standards then we would have to eliminate the use of it in the fields.

Please keep me posted.

If you would need to ask questions or need more information please feel free to contact our Technical Services Director, Mark Grey: mgrey@synagro.com

#### Thanks, Jeff King

-----Original Message-----From: Meacham, Robert To: 'jking@synagro.com' Cc: Meacham, Robert Sent: 1/13/01 1:10 PM

Subject: VOL SOLIDS REDUCTION

Jeff, I wanted to let you know that the sludge currently being haulded out

of the Moreno Valley Regional Water Reclamation Facility (EMWD) does not meet the Class B requirement of 38% Vol. Solids Reduction requirement.

tests we ran on 1/11/01 failed. We retested on 1/12/01 and it failed again.

With the recent rainfall we received in our area I doubt that any sludge has

been land applied anyway. We will keep you posted on this matter and let you

know when we are meeting the requirements.

Thanks,

Robert Meacham

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Na	me:	т	EMECULA	A VALLE	Y RWR	F	Mor	nitoring F	Period	1/1/	01 to 3/31/01	
1. Po	ollutant a	and Nitro	ogen con	centratio	ons (Re	eport res	sults on 1	00% dry	v weight b	asis. Atta	ich lab anal	yses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N	% solids
Avg	11	1.04	485	7.45	€3	9.8	43.5	9.55	425	4.5%	2.1%	16.25
Max	17	1.2	630	8.3	<3	9.8	46	12	540	4.5%	2.1%	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
anaa Cl aero Cl arric Cl X feco Cl Iime Cl 3. Ve	ass B P. erobic di ass B: ti bbic dige ass B: ti ng beds ass B: ti al colifor ass B: g stabiliza ass B: p ector Atti tion 1: V AR: VSF	athogen igestion me (day stion for time > 3 m: geor geometri ation: pl H 2 hou raction F	for	toto 3 (temto 3 (temto 2 monticean of so for seven urs after addition of the seven additional addition of the seven additional additiona	pp, deg np, deg np, deg monti hs > 0 even sa sample addition of lime	days rees C) days at grees C) ns (attack decrees amples : es is < 2 on = is ≥ 12	for times for times ch record C 48,000 2,000,000	to between between s of date (maxion) mpn	n 15 and deg n 40 and es in and	60 days grees F/C 60 days	C (range fo	r past month) ast month)
Optio  VA  Optio  Optio  VA  Optio  VA  Optio  VA  Optio  VA  Optio  Opt	on 4: SC AR: SOU on 5: Co AR: tem on 6: tin AR: pH on 7: % AR: stab on 8: % AR: unst on 9/10:	DUR = _ UR < 1.5 composte p > 40 d ne alkali ≥ 12 for solids = solids = tabilized Applier	is mg 0 <sub>2</sub> /h d	after alka Stabil	(dry we at tem days, w pH aft ali addi ization	eight) hps of y/5 days her 2 hou tion, ≥ 1 method	t > > 45 deg urs = 1.5 for ad :h	o grees C pl dditional	degre	hours -	ttach times/	temps)
supervision submitted. gathering th	in accor Based e inform at there violation	dance won my interpretation, the are signs.	rith a syst nquiry of ne inform nificant p	the per ation su enalties	gned to son or bmitted for sul	assure persons is, to tho mitting	that qual s who mane best of false info	ified pers anage the my kno ormation	sonnel pr ne syster wledge a , includin	operly gath n or the p nd belief, g the poss	ner and eva ersons dire true, accura	der my direction or luate the information ctly responsible for ite, and complete. I e and imprisonment
	909		8–3777					E-Mail <u>:</u>		t@emwd.d	, j	124/20

### EASTERN MUNICIPAL WATER DISTRICT QUARTERLY SLUDGE REPORT: 1/1/01 to 3/31/01

TEMECULA VALLEY RWRF

		METALS			Manager of Manager States and American Conference of States	<u> </u>	NON-METAL	S
		ARSENIC				%\	OL REDUCT	ION
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximu
1/10/01	17	5	17	11	3/13/01	58.32		
2/8/01	5				3/20/01	62.18		
		CADMIUM			3/27/01	54.92		
Date:	Results:	Minimum	Maximum	Average			MMONIA AS	N
1/10/01	<0.88	0.88	1.2	1.04	Date:	Results:	Minimum	Maximu
2/8/01	1.2				1/10/01	21000	21000	21000
		COPPER				BP1-C	AKE-TOTAL S	SOLIDS
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximu
1/10/01	340	340	630	485	1/10/01	16	14	21
2/8/01	630				1/11/01	16		
		LEAD			1/12/01	14		
Date:	Results:	Minimum	Maximum	Average	1/15/01	15		
1/10/01	8.3	6.6	8.3	7.45	1/16/01	16		
2/8/01	6.6				1/17/01	16		
		MERCURY			1/18/01	21		
Date:	Results:	Minimum	Maximum	Average	2/8/01	16		
1/10/01	<3	<3	<3	3			GEOMEAN	
2/8/01	<3	_	•	Ŭ	Date:	Results:	Minimum	Maximu
	N	OLYBDENU	VI		1/18/01	48000	48000	48000
Date:	Results:	Minimum	Maximum	Average		:	Org-N (NP)	
1/10/01	9.8	9.8	9.8	9.8	Date:	Results:	Minimum	Maximu
	5.5	NICKEL	3.0	9.0	1/10/01	45000	45000	45000
Date:	Results:	Minimum	Maximum	A			TKN	
1/10/01	46	41	waximum 46	Average 43.5	Date:	Results:	Minimum	Maximu
2/8/01	41	41	40	43.5	1/10/01	66000	66000	66000
		SELENIUM						33333
Date:	Results:	Minimum	Maximum	Average				
1/10/01	7.1	7.1	12	•				
2/8/01	12	7.1	12	9.55				
		ZINC						
Date:	Results:	Minimum	Maximum	Average				
1/10/01	310	310	540	_				
2/8/01	540	310	540	425				
		ON-METALS						
New Action of the Control of the Con		OL REDUCTION						
Date:	Results:	Minimum	Maximum	<b>A</b>				
1/2/01	50.4	44.15	62.18	Average				
1/9/01	50. <del>4</del> 52.83	<del>44</del> . 10	02.18	54.36				
/16/01	46.87							
/23/01	54.92							
/30/01	58			4				
2/6/01	57.6		•					
2/13/01	47.94							
/20/01	57.6							
/27/04	44.45							

2/27/01

44.15

60.9

Maximum

Maximum

21000

Maximum

Maximum

Maximum

Maximum

Average

Average

21000

Average

16.25

Average

48000

Average

45000

Average

66000

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Na	me:	HE	MET-SAN	JACIN	TO RWF	RF	Mo	nitoring f	Period	1/1/	01 to 3/31/01	l
1. P	ollutant a	and Nitro	ogen con	centrati	ons (Re	eport res	sults on 1	00% dry	weight b	oasis. Atta	ich lab anal	yses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N	% solids
Avg	12.75	1.6	420	26	∠3	8.9	44	9.75	625	5.72%	0.58%	17.62
Max	18	1.6	420	26	<3	9.4	44	13	630	5.72%	0.58%	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
ana Cl aero Cl Aryin Cl X fec. Cl Ilime Cl 3. Ve X Opti V/A Opti V/A Opti V/A Opti V/A Certification submitted. gathering th	erobic didess B: tile bbic diges lass B: tile bbic diges beds fill beds bill beds fill beds fi	gestion me (day stion for ime (day stion for ime > 3 m: geometr stion: pl + 2 hour action F = 38% Bench stional V = 12 for solids = abilized so solids = abilized Applier stion with tiffy, undance won my in ation, the	Reduction (rs) ≥ 120 ys) ≥	to to to to to 2 montered for severurs after addition in:  """ VSI was after a days of severurs after alkar/gram days of or 14 master alkar stability was after alkar stability of latered for severation su	mp, deg mp, deg mp, deg mp, deg monti hs > 0 even sa n sampli r addition of lime  R =40 days days, w pH aff ali addi lization  orate w poratior w, that gned to son or bmitted	days rees C) days at grees C) hs (attack decrees amples: les is < 2 on = is ≥ 12  56.39  as (anaer as (anaer bight) hps of //5 days ter 2 hou tion, ≥ 1 method  within in within assure persons d is, to the	for times for times for times ch record CC = _270,00 2,000,000  (average after tobic), < 1	to between to s between s of date compon compon date co	ys r 30 days — degree H after 22 22 hours  ttachmer sonnel processors and processors and processors are system wieden a	60 days grees F/C 60 days out)  ees F/C (a hours = _ s  hts were p operly gath or the p nd belief	ttach times/	der my direction or luate the information ctly responsible for
am aware ti for knowing	nat there violation	are sig is.	nificant p	enalties	tor sul	omitting	false info	rmation,	, includin	g the poss	sibility of fine	e and imprisonment
Name and (	Official Ti	itle <u>:</u>		An	thony 、	J. Pack,	Deputy	<u>General</u>	Managei			
Phone: (	909	_)92	8–3777	ext. 420	35			_E-Mail <u>:</u>	pack	t@emwd.e	org	
Signature:					7	150				Dat	. 4	126/01

## QUARTERLY SLUDGE REPORT: 1/1/01 to 3/31/01

**HEMET-SAN JACINTO RWRF** 

		METALS	And a And described to the Andrews				NON-METAL	S	
		ARSENIC				BP1-C	AKE-TOTAL S	SOLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
1/9/01	18	7.5	18	12.75	1/9/01	18	14	21	17.63
1/10/01	7.5				1/10/01	18			
					1/11/01	21			
		CADMIUM			1/12/01	19			
Date:	Results:	Minimum	Maximum	Average	1/15/01	14			
1/9/01	1.6	1.6	1.6	1.6	1/16/01	16			
1/10/01	1.6				1/17/01	17			
		COPPER			1/18/01	18			
Date:	Results:	Minimum	Maximum	Average			GEOMEAN		
1/9/01	420	420	420	420	Date:	Results:	Minimum	Maximum	Average
1/10/01	420				1/18/01	270000	270000	270000	270000
		LEAD					0 1 (1)		
Date:	Deculter	LEAD	Maximum	Averes	D - 4	D	Org-N (NP)		
1/9/01	Results: 26	Minimum 26	26	Average 26	Date:	Results:	Minimum	Maximum	Average
1/9/01	26	20	20	20	1/10/01	57200	57200	57200	57200
1710/01							TKN		
		MERCURY			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	1/10/01	63000	63000	63000	63000
1/9/01	<3	<3	<b>∡3</b>	< 3					
1/10/01	<3						SOL % REDU		
	٨	MOLYBDENUM	М		Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	1/1/01 1/8/01	100 33.51	33.51	100	56.4
1/9/01	9.4	8.4	9.4	8.9	1/6/01	52.21			
1/10/01	8.4	0.4	5.4	0.0	1/18/01	52.21			
17.10701					1/22/01	58.82			
		NICKEL			2/1/01	56.48			
Date:	Results:	Minimum	Maximum	Average	2/12/01	59.52			
1/9/01	44	44	44	44	2/15/01	38.31			
1/10/01	44				3/1/01	53.35			
					3/18/01	59.52			
		SELENIUM			3/25/01	56.48			
Date:	Results:	Minimum	Maximum	Average					
1/9/01	13	6.5	13	9.75					
1/10/01	6.5								
		ZINC							
Date:	Results:	Minimum	Maximum	Average					
1/9/01	630	620	630	625					
1/10/01	620								
	N	NON-METAL	S						
	Δ	AMMONIA AS	N						
Date:	Results:	Minimum	Maximum	Average					
	5800	5800	5800	5800					

QUARTERLY CERTIFICATION STATEMENTS (April - June, 2001)

HEMET/SAN JACINTO, MORENO VALLEY AND TEMECULA VALLEY REGIONAL WATER RECLAMATION FACILITIES



#### **Board of Directors**

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Director of the Metropolitan Water District of So. Calif. Marion V. Ashley

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Legal Counsel
Redwine and Sherrill

July 2, 2001

Mr. Mark Gray

Regional Technical Services Manager

Synagro of California

P.O. Box 7027

Corona. CA 92878-7027

Dear Mr. Grey:

Attached please find the certification statements for the second quarter (April through June, 2001) for Hemet/San Jacinto, Temecula Valley, and Moreno Valley RWRFs. The Moreno Valley RWRF ceased land application of its biosolids effective May 24, 200, due to concerns over the ability of the Moreno Valley RWRF to meet Class B pathogen standards, as well as volatile solids reduction requirements. Attached to this letter is a copy of the e-mail record to and from Jeff King of your company, stating these concerns.

If you have any questions regarding these reports, please contact Mike Luker at (909) 928-3777, ext. 6255, or Jayne Joy at ext. 6241.

Sincerely,

Anthony J. Pack

Deputy General Manager

Administration and Operations

CC:

Mike Luker, Director of Water Reclamation David Morycz, Manager of Regulatory Services Anne Briggs, Senior Environmental Compliance Analyst

J.:WORDPROC:WP!ENVIRON:BRIGGS:CERTCOVE.SLD

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Na	me:	НЕ	MET-SAN	JACINT	O RWF	RF	Moi	nitoring f	Period	4/1/	01 to 6/30/01	
											ach lab anal	
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH4-N	% solids
Avg	₹4.64	2.15	750	13.8	٤3	12.3	77	10.6	1050	4.89%	0.89%	16.39
Max	<5.2	2.7	930	19	<3	17	86	15	1300	5.14%	0.99%	19
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
Sampling o	late(s): _		4/	1/01 to 6/	/30/01							
2. CI	ass B P	athogen	Reduction	on: (Che	ck off :	and fill ir	n annlical	ale nortic	an)			
X   fect     X   fect     X   fect     X   fect     Cl     X   fect     Cl     State     Cl     Cl	ass B: to bic dige ass B: to ag beds ass B: to al colifor ass B: g stabiliza ass B: p ector Attr tion 1: V AR: VSF on 2/3: AR: 4SO AR: SOU on 5: Co AR: SOU on 6: tin AR: pH 2 on 7: % AR: stab on 8: % AR: unst on 9/10:	ration for ime (day stion for ime (day for ime > 3 m: geometrication: plus H 2 houraction F (SR = Sas% Bench stitional V DUR = JR < 1.5 pmposter p > 40 dine alkalitication for solids = sabilized solids = sabilized Applier	ys) ≥ 120 ys) ≥ 120 to _ months: metric metric metric mean of at 2 horse after a  Reduction  50.15 ( cale test: SR < 179 or mg 02/h d egrees C added: 2 hours a	- 3 (tem to to 2 month sean of second s	ip, deginp, de	rees C) fidays at grees C) fidays at grees C) fins (attack decrees amples = files is < 2 files f	for times for times ch record C =130,00 2,000,000  (average ftert > 45 dec urs = 1.5 for ac	betweer to to betwee s of date 0 (maxi ) mpn ) day 5% after o ph dditional	n 15 and deg n 40 and es in and mum) ys r 30 days degre	60 days grees F/C 60 days out)  (aerobic) ees F/C (at	(range for p	
submitted. gathering th	Based e e informat there violation	on my interection on my interection, the area signs.	nquiry of ne informanificant p	em desi the per ation sul enalties	gned to son or bmitted for sul	assure persons is, to the bmitting	that qual s who ma ne best of false info	ified pers anage th my kno ormation	sonnel pro ne systen wledge a , including	operly gath n or the p nd belief, f g the poss	ner and eval ersons dire true, accura	der my direction or luate the information ctly responsible for ate, and complete. I e and imprisonment
Phone: (	909	_)92	8–3777	ext. 423	35	_		_E-Mail <u>:</u>	pack	t@emwd.c	org	
Signature: _		···		(J.		( cut	<u></u>	T. T		Dat	e:	12/01

# QUARTERLY SLUDGE REPORT: 4/1/01 to 6/30/01

HEMET-SAN JACINTO RWRF

#### **METALS**

#### **NON-METALS**

		ARSENIC		~~~~		BP1-0	AKE-TOTAL	SOLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	<4.09	<4.09	5.2	4.64	4/9/01	16	10	19	16.4
4/11/01	<5.2				4/10/01	16			
		CADMIUM			4/11/01	16			
D-4-		·····			4/11/01	10			
Date:	Results:	Minimum	Maximum	Average	4/12/01	17			
4/9/01	1.6	1.6	2.7	2.15	4/16/01	18			
4/11/01	2.7				4/17/01	17			
		COPPER			4/18/01	18			
Date:	Results:	***************************************			6/12/01	19			
4/9/01	570	Minimum	Maximum	Average	6/13/01	17			
4/11/01	930	570	930	750	6/14/01	18			
4/11/01	930				6/18/01	13			
		LEAD			6/19/01	16			
Date:	Results:	Minimum	Maximum	A	6/20/01	18			
4/9/01	8.6	8.6		Average	6/21/01	17			
4/11/01	19	0.0	19	13.8					
,,,,,,,,	13				***************************************	***************************************	GEOMEAN		*****
		MERCURY			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Avorago	4/18/01	95000	95000	130000	112500
4/9/01	<3	<3	3	Average 3	6/21/01	130000			
4/11/01	<3	<b>~</b> 5	3	3			Own M (ND)		
					_		Org-N (NP)		
	N	OLYBDENU	Л		Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	4/9/01	46356	46356	51490	48923
4/9/01	7.6	7.6	17	12.3	6/13/01	51490			
4/11/01	17						TKN		
		More			Date:	Results:	Minimum	Mavimum	A
	***************************************	NICKEL			4/9/01	56256	56256	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	6/13/01	59400	30236	59400	57828
4/9/01	68	68	86	77	0,10,01	39400			
4/11/01	86					VOL S	OL % REDUC	TION	
		SELENIUM			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum		4/3/01	62.5	50.15	62.5	55.3
4/9/01	<6.2		Maximum	Average	4/9/01	61.33			
4/11/01	15	6.2	15	10.6	4/19/01	51.14			
4/11/01	13				4/22/01	54.41			
		ZINC			4/26/01	57.6			
Date:	Results:	Minimum	Movimum	A	5/7/01	56.48			
4/9/01	800	800	Maximum	Average	5/10/01	51.14			
4/11/01	1300	800	1300	1050	5/21/01	58.42			
		ON METAL O			5/25/01	55.43			
	. N	ON-METALS	•		5/31/01	55.43			
					6/12/01	54.41			
	A	MMONIA AS N	I		6/14/01	51.14			
Date:	Results:	Minimum	Maximum	Average	6/18/01	55.43			
4/9/01	9900	7910	9900	8905	6/21/01	56.48			
6/13/01	7910	, , , ,	5500	0000	6/25/01	53.35			
					6/28/01	50.15		= -	

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Facility Na	me:	Т	EMECULA	A VALLE	Y RWR	F	Moi	nitoring I	Period	4/1/	'01 to 6/30/01	ı
1. Po	ollutant	and Nitro	ogen con	centratio	ons (Re						ach lab anal	
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N	% solids
Avg	4.9	0.95	640	5.85	<b>4</b> 3	12	61	8.15	505	6.24%	0.87%	16.78
Max	6	0.99	640	8.4	∠ 3	12	84	10	550	6.99%	0.9%	20
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
Sampling d	ate(s): _		4/	1/01 to 6/	30/01							
2. CI	ass B P	athogen	Reduction	on: (Che	ck off a	and fill ir	n applicat	ole portic	on)			
aero Cli dryir Cli X feca Cli lime Cli 3. Ve X Optic VA Optic VA Optic VA Optic VA Optic VA Certificatio supervision submitted. gathering the am aware the for knowing Name and C	bic dige ass B: t dig beds ass B: g stabilization 1: VSF on 2/3: l dig beds ass B: p ctor Attribution 1: VSF on 5: Con R: addition 4: SOL on 5: Con R: tempon 6: time R: pH 2 on 6: time R: pH 2 on 6: time pin 7: % R: stabon 8: % R: unstin 9/10: R: inject on accord according to the property of t	stion for ime (day stion for ime (day for ime > 3 m: geometrication: ph 2 hou raction F (SR = Bench stional V: DIR < 1.5 pm > 40 do ne alkali = 12 for 2 solids = abilized so solids = abilized so solids = abilized itify, under the control on my irror ation, the are signis.	ys) ≥ 120  ys) ≥ 120  months: metric	werage)  "YSF "Average)  "VSF "Average)  "VSF "Autor 14 of 15 of 14 of 15 of 14 of 15 of 1	p, deginp, deginpedicipal deginpedicipa	rees C) days at irees C) ns (attack decrees amples : es is < 2 on = is ≥ 12  26 (Mia (anaero ight) ps of //5 days er 2 hou ithin o within G this doc assure persons is, to the mitting	nimum)  fter  to > 45 deg  lirs =  1.5 for act  that quality  who may e best of false info	day between to between of date continue day between day be	ttachmen connel proce system wiedge ai including	60 days grees F/C 60 days out)  (aerobic)  es F/C (at hours =  ts were p perly gath n or the pend belief, to g the poss	repared under and evaluer and evaluers ons directions directions.	
Phone: (	909	_)928	3–3777 6	ext. 423	5	$\overline{}$		E-Mail <u>:</u>	pack	t@emwd.c	org	
Signature: _				a	$\mathcal{K}_{\overline{z}}$	och				Date	e: 7/	12/n;

# QUARTERLY SLUDGE REPORT: 4/1/01 to 6/30/01 TEMECULA VALLEY RWRF

		METALS				1	NON-METAL	.s	
		ARSENIC				%	VOL REDUCT	ION	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	3.8	3.8	6	4.9	6/12/01	49.3			•
5/10/01	6				6/26/01	53.89			
		CADMIUM					AMMONIA AS	N	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	0.91	0.91	0.99	0.95	4/9/01	9070	8460	9070	8765
5/10/01	0.99				6/12/01	8460			
	·····	COPPER				BP1-C	AKE-TOTAL	SOLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	640	640	640	640	4/9/01	17	14	20	16.79
5/10/01	640				4/10/01	16			
~ *********		LEAD			4/11/01	16			
Date:	Results:	Minimum	Maximum	Average	4/12/01	16			
4/9/01	<3.3	3.3	8.4	5.85	4/16/01	18			
5/10/01	8.4			0.00	4/17/01	17			
		MERCURY			4/18/01	17			
Date:	Results:	Minimum		_	5/10/01	17			
4/9/01			Maximum	Average	6/12/01	14			
	<3 -3	<3	<3	3	6/13/01	17			
5/10/01	<3		-		6/14/01	20			
	N	IOLYBDENU	VI	***************************************	6/18/01	17			
Date:	Results:	Minimum	Maximum	Average	6/19/01	16			
4/9/01	12	12	12	12	6/20/01	16			
		NICKEL			6/20/01	17			
Date:	Results:	Minimum	Maximum	Average	6/20/01	17			
4/9/01	84	38	84	61	6/20/01	17			
5/10/01	38			0.	6/21/01	17			
		SELENIUM			6/21/01	17			
Date:	Results:	Minimum	Maximum	Average		***************************************	GEOMEAN	***************************************	
4/9/01	6.3	6.3	10	8.15	Date:	Results:	Minimum	Maximum	Average
5/10/01	10	0.0	10	0.15	4/18/01	46000	46000	79000	62500
	.0	ZINC			6/21/01	79000			
Date:	Results:	Minimum		_			Org-N (NP)		
4/9/01	460	460	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
5/10/01	550	460	550	505	4/9/01	54907	54907	69940	62423.5
3/10/01		ON METAL			6/12/01	69940			02 .20.0
		ON-METALS					TKN		
o de la desenvación de la companya del companya de la companya del companya de la	% V	OL REDUCTI	ON		Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	4/9/01	63977	63977	78400	71188.5
4/3/01	51.76	42.26	59.34	52.11	6/12/01	78400			
4/10/01	46.08								
4/17/01	59.34								
4/24/01	47.78								
5/1/01	57.02								
5/8/01	51.62								
5/15/01	42.26								
5/22/01	52.2								
5/29/01	56.47							<del>-</del> "	
	57.6								

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

Pacility Name:   MORENO VALLEY RWRF   Monitoring Period   4/1/01 to 6/30/01	Facility Na	me:		MORENO	VALLEY	RWRF		Mo	nitoring l	Period	4/1/	01 to 6/30/01	
Avg         < 3.4         < 0.72         240         < 3.6         < 3         3.7         45         < 5.3         300         4.88%         0.62%         15.21           Max         < 3.4	1. P	ollutant											
Max		As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH4-N	
Table 3	Avg	< 3.4	₹0.72	240	₹3.6	<b>4</b> 3	3.7	45	<b>∢</b> 5.3	300	4.88%	0.62%	15.21
Table 1 75 85 4300 840 57 75 420 100 7500 na na na  Sampling date(s):	Max	<3.4	<0.72	240	<3.6	<3	3.7	45	<5.3	300	7.63%	0.69%	16
Sampling date(s):	Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
2. Class B Pathogen Reduction: (Check off and fill in applicable portion)  anaerobic digestion for to days at to degrees F/C (range for past month)  Class B: time (days) ≥ 120 - 3 (temp, degrees C) for times between 15 and 60 days aerobic digestion for to days at to degrees F/C (range for past month)  Class B: time (days) ≥ 120 - 4 (temp, degrees C) for times between 40 and 60 days drying beds for to months (attach records of dates in and out)  Class B: time > 3 months: 2 months > 0 decrees C  X	Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
anaerobic digestion for to days at to degrees F/C (range for past month)  Class B: time (days) ≥ 120 - 3 (temp, degrees C) for times between 15 and 60 days aerobic digestion for to days at to degrees F/C (range for past month)  Class B: time (days) ≥ 120 - 4 (temp, degrees C) for times between 40 and 60 days drying beds for to months (attach records of dates in and out)  Class B: time > 3 months: 2 months > 0 decrees C  X fecal coliform: geometric mean of seven samples = 130,000 (maximum)  Class B: geometric mean of seven samples is < 2,000,000 mpn lime stabilization: pH at 2 hours after addition = Class B: pH 2 hours after addition of lime is ≥ 12  3. Vector Attraction Reduction:  X Option 1: VSR = 36.81 (average) 4.68 (minimum)  VAR: VSR 38%  Option 2/3: Bench scale test: % VSR = after days  VAR: additional VSR < 17% after 40 days (anaerobic), < 15% after 30 days (aerobic)  Option 4: SOUR = VAR: SOUR < 1.5 mg 02/hr/gram (dry weight)  Option 5: Composted days at temps of to degrees F/C (attach times/temps)  VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C  Option 6: time alkali added: pH after 22 hours = pH after 22 hours = pH after 22 hours =	Sampling of	late(s): _		4/	1/01 to 6	/30/01							
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hours  Option 7: % solids = Stabilization method:  VAR: stabilized solids > 75%	ana Cl aerc Cl dryin Cl X fec Cl lime Cl 3. Ve X Opti V/	erobic diass B: tobic dige ass B: mg beds ass B: gal colifor ass B: pector Attobic 1: \AR: VSF on 2/3: \AR: solon 5: CAR: temon 6: tir \AR: pH on 7: %	igestion ime (day estion for time (da for time > 3 rm: geo geometr ation: pl bH 2 hou raction F SR = R 38% Bench s litional V DUR = UR < 1.5 omposte p > 40 d me alkali ≥ 12 for s solids =	for	tototo	np, deg np, de	days rees C) days at grees C) hs (attace decrees amples = les is < 2 on = is ≥ 12  l.68 (ma s (anaer eight) hps of v/5 days ter 2 hou ition, ≥ 1	at for times ch record c C = 130,00 2,000,00  ninimum) after obic), <	to between to s between s of date 0 (maxion 0 mpn  date 15% afte	n 15 and long deg n 40 and es in and mum)  ys r 30 days long degree	60 days grees F/C 60 days out)  c (aerobic) ees F/C (a	(range for p	east month)
					90%								
Option 8: % solids = VAB: unstabilized solids > 90%	Opti	on 9/10:	Applier	will injec	ct/incorp	orate v	vithin	_ h	ours				
VAR: unstabilized solids > 90%	VA	AR: inje	ction wit	hin 1 hou	ır, incorp	oration	n within	6 hours					
	supervision submitted. gathering th am aware t	in accor Based ne inforn hat there	dance won the contract of the	nquiry of ne inform	tem desi the per ation su	gned to son or bmitted	o assure opersonation to the part of the second contraction of the sec	that qua s who m ne best o	lified per anage the f mv kno	sonnel pr ne syster wledge a	operly gath n or the p and belief.	ner and eval ersons dire true, accura	luate the information ectly responsible for the land complete.
VAR: unstabilized solids > 90% Option 9/10: Applier will inject/incorporate withinhours VAR: injection within 1 hour, incorporation within 6 hours  Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. It is a supervision in accordance with a system or person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. It is a supervision in a constant of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. It is a supervision in a constant of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.	Name and	Official 7	Γitle <u>:</u>		Ar	thony .	J. Pack,	Deputy	General	Manage	r		
VAR: unstabilized solids > 90%  Option 9/10: Applier will inject/incorporate within hours VAR: injection within 1 hour, incorporation within 6 hours  Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phone: (	909	)92	8–3777	ext. 42:	35			_ E-Mail <u>:</u>	pack	kt@emwd.	org	
VAR: unstabilized solids > 90%  Option 9/10: Applier will inject/incorporate within hours  VAR: injection within 1 hour, incorporation within 6 hours  Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.  Name and Official Title:  Anthony J. Pack, Deputy General Manager	Signaturo				Q.	1-	) j				_	7	In las
VAR: unstabilized solids > 90%  Option 9/10: Applier will inject/incorporate within hours  VAR: injection within 1 hour, incorporation within 6 hours  Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete, am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.  Name and Official Title:  Anthony J. Pack, Deputy General Manager	Jigilalule						TI				Dat	:e:	5/01

# QUARTERLY SLUDGE REPORT: 4/1/01 to 6/30/01

MORENO VALLEY RWRF

#### **METALS**

#### **NON-METALS**

		ARSENIC			AMMONIA AS N				
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	<3.4	<3.4	<b>&lt;</b> 3.4	<b>&lt;</b> 3.4	4/9/01	5480	5480	6960	6220
		CADMIUM			6/12/01	6960			
Date:	Results:	Minimum	Maximum	Average	BP1-CAKE-TOTAL SOLIDS				
4/9/01	<0.72	<0.72	< 0.72	< 0.72	Date:	Results:	Minimum	Maximum	Average
					4/9/01	16	13	16	15.21
·····		COPPER			4/10/01	16		, ,	
Date:	Results:	Minimum	Maximum	Average	4/11/01	15			
4/9/01	240	240	240	240	4/12/01	16			
		LEAD			4/16/01	15			
		***************************************			4/17/01	15			
Date:	Results:	Minimum	Maximum	Average	4/18/01	14			
4/9/01	<3.6	<3.6	<b>≺</b> 3.6	< 3.6	6/7/01	14			
		MERCURY			6/12/01	16			
Date:	Results:	Minimum	Maximum	Avorage	6/13/01	15			
4/9/01	<3	<3	waxiiiuiii <3	Average < 3	6/14/01	13			
4/3/01	<b>~</b> 5	ν,	- 3	<b>\</b> 3	6/18/01	16			
	N	<b>IOLYBDENU</b>	М		6/19/01	16			
Date:	Results:	Minimum	Maximum	Average	6/20/01	15			
4/9/01	3.7	3.7	3.7	3.7	6/21/01	15			
					6/22/01	15			
		NICKEL		***************************************	6/22/01	16			
Date:	Results:	Minimum	Maximum	Average	6/22/01	15			
4/9/01	45	45	45	45	6/22/01	16			
		SELENIUM					GEOMEAN		
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/9/01	<5.3	<5.3	<b>∢</b> 5.3	<b>&lt;</b> 5.3	4/18/01	130000	120000	130000	125000
					6/21/01	120000			
		ZINC	***************************************				Org-N (NP)		
Date:	Results:	Minimum	Maximum	Average	Doto	Peculto	•••••••••••••••••••••••••••••••••••••••	84	
4/9/01	300	300	300	300	Date:	Results:	Minimum	Maximum	Average
	N	ION-METAL	S		4/9/01	76356	21440	76356	48898
					6/12/01	21440			
		% Vol Reduce	<b>)</b>				TKN	***************************************	<b>********</b>
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
4/2/01	46.15	4.68	59.2953309	36.81	4/9/01	81836	28400	81836	55118
4/5/01	59.3				6/12/01	28400			
4/9/01	45.13								
4/16/01	22.74								
4/19/01	4.68								
5/3/01	36.47								
5/7/01	29.98								
5/10/01	51.89								
	42.7								
5/14/01									
5/14/01 5/21/01	48.15								
	48.15 25.99							-	

#### Briggs, Anne

From:

Wippler, Mark

ent:

Monday, June 04, 2001 2:03 PM

):

Briggs, Anne

Subject:

FW: VOL SOLIDS REDUCTION

----Original Message-----

From: King, Jeffrey [mailto:JKing@SYNAGRO.com]

Sent: Wednesday, May 30, 2001 12:37 PM

To: 'Wippler, Mark'

Subject: RE: VOL SOLIDS REDUCTION

Mark. We are currently taking your material to the compost site for composting. This was made known to us last week. I believe on Thursday 5-24-01 and nothing has been delivered to the fields since then. You should make sure to copy Mark Gray on these emails. He is the regional Technical Director and needs to know of these issue as well. I have forwarded this email to him so he is in the loop.

Thanks, Jeff King

----Original Message----

From: Wippler, Mark [mailto:wipplerm@emwd.org]

Sent: Wednesday, May 30, 2001 10:24 AM

To: 'jking@synagro.com'

Cc: Briggs, Anne; Ingersol, Steve; Meacham, Robert; Luker, Mike

Subject: FW: VOL SOLIDS REDUCTION

Self Are your composting MVRWRF sludge Yet?

-----Original Message-----From: Meacham, Robert

Sent: Thursday, May 24, 2001 3:34 PM

To: 'King, Jeffrey'

Cc: Ingersol, Steve; Meacham, Robert; Wippler, Mark; Briggs, Anne

Subject: RE: VOL SOLIDS REDUCTION

Jeff, we would like Synagro to discontinue the land application of the sludge hauled from the Moreno Valley Facility(EMWD). Back in January, I notified you regarding the Volatile Solids reduction not meeting the Class B requirements as specified in our Sludge Regulations. You replied with the 6 hour incorporation information. Our current concern is meeting the pathogen level of 2,000,000 MPN/g TS. Our latest records from April 2001 test results were 200,000 MPN/g TS. The reason for the increased pathogen count is that we have two out of four digesters out of service for mixing upgrades. The reduced detention time could have a negative impact on our ability to reduce pathogens. Due to the infrequent sampling intervals and the inability to forecast the effect the upgrade will have, we're requesting that the sludge hauled from our Facility be composted.

Thanks, Robert Meacham

----Original Message----

From: King, Jeffrey [mailto:JKing@SYNAGRO.com]

nt: Tuesday, January 16, 2001 10:53 PM

. 'Meacham, Robert

Subject: RE: VOL SOLIDS REDUCTION

Robert, to follow up on this.

By not meeting the Class B requirement of 38% Volitol Solids Reduction, it requires me to have this material spread and incorporated within a 6 hour time period for a land application site. It does not eliminate the use of in the field, it only restricts the way we handle it. The concern here is to minimize vector attraction since the material is not fully stabilized. If the pathogen levels were to increase beyond EPA 503 standards then we would have to eliminate the use of it in the fields. Please keep me posted.

If you would need to ask questions or need more information please feel free to contact our Technical Services Director, Mark Grey: mgrey@synagro.com

#### Thanks, Jeff King

-----Original Message-----From: Meacham, Robert To: 'jking@synagro.com' Cc: Meacham, Robert Sent: 1/13/01 1:10 PM

Subject: VOL SOLIDS REDUCTION

Jeff, I wanted to let you know that the sludge currently being haulded out

of the Moreno Valley Regional Water Reclamation Facility (EMWD) does not meet the Class B requirement of 38% Vol. Solids Reduction requirement.

tests we ran on 1/11/01 failed. We retested on 1/12/01 and it failed again.

With the recent rainfall we received in our area I doubt that any sludge

been land applied anyway. We will keep you posted on this matter and let

ow when we are meeting the requirements.

Thanks,

Robert Meacham

QUARTERLY CERTIFICATION STATEMENTS (July – September, 2001)

HEMET/SAN JACINTO, MORENO VALLEY AND TEMECULA VALLEY REGIONAL WATER RECLAMATION FACILITIES



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asurer
seph J. Kuebler, CPA

Legal Counsel
Redwine and Sherrill

October 1, 2001

Mr. Mark Gray

Regional Technical Services Manager

Synagro of California

P.O. Box 7027

Corona, CA 92878-7027

Dear Mr. Grey:

Attached please find the certification statements for the third quarter (July through September, 2001) for Hemet/San Jacinto and Temecula Valley RWRFs. The Moreno Valley RWRF ceased land application of its biosolids effective May 24, 2001, due to concerns over the ability of the Moreno Valley RWRF to meet Class B pathogen standards, as well as volatile solids reduction requirements.

If you have any questions regarding these reports, please contact Jayne Joy at ext. 6241.

Sincerely,

Mike Luker

Assistant General Manager, Administration and Maintenance

CC:

David Morycz, Manager of Regulatory Services

Anne Briggs, Senior Environmental Compliance Analyst

J:\WORDPROC\WP\ENVIRON\BRIGGS\CERTCOVE.SLD

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

\_ Monitoring Period

7/1/01 to 9/30/01

TEMECULA VALLEY RWRF

acility Na	me:	T	EMECULA	VALLE	YRWR	F	Moi	nitoring l	Period	7/1/	01 to 9/30/01	
. Po	ollutant :	and Nitro	ogen con	centration	ons (Re	eport res	suits on 1	00% dry	weight t	oasis. Atta	ach lab anai	lyses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH4-N	% solids
Avg	6	1	455	9	43	16	16	9.5	465	5.08%	0.76%	16.05
Max	6	1	480	9	<3	16	17	10	480	5.08%	0.76%	18
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
Sampling o	late(s):		7/	1/01 to 9/	/30/01			:				
						and fill is	a applica	ble posti	on)			
. CI	lass B P	atnoger	Reduction	on: (Cne	CK OTT	and IIII II	п аррііса	ole borti	onj			
ana	erobic d	igestion	for	to _		days	at	to _	(	degrees F	/C (range fo	or past month)
CI	lass B: t	ime (day	/s) ≥ 120	- 3 (tem	ıp, deg	rees C)	for times	between	n 15 and	60 days		
aero	bic dige	estion fo	r	_ to		days at		_ to	de	grees F/C	(range for p	past month)
C	lass B:	time (da	ys) ≥ 120	) - 4 (ter	np, deg	rees C)	tor times	betwee	n 40 and	60 days		
dryi	ng beds	tor	months:	2	_ monti	ns (attac	cn record	s or date	s in and	out)		
Xfec	ass b.	IIIIe > 3	metric m	2 IIIUIII 2 an of e	115 > U	amniae :	_ 88.00(	) (may	imum)			
			ric mean									
			H at 2 ho					- · · · <b>p</b> · ·				
			ırs after a									
). V	ector At	traction	Reduction	ո։								
Opti V Opt	AR: VS ion 2/3: AR: add ion 4: S	R 38% Bench : ditional \ OUR = _	scale test /SR < 17	:: % VS % after	R = 40 days	a s (anaer	linimum) after robic), < `	da 15% afte	ys r 30 days	s (aerobic)	)	
			5 mg 02/t				,	to	dear	ees E/C (s	attach times	/temps)
			degrees (						degi	ees 170 (e	illacii iiiico	, (OIII <b>po</b> )
									H after 2	2 hours =		
·v.	AR: pH	≥ 12 for	2 hours	after alk	ali add	ition, ≥ 1	11.5 for a	dditiona	l 22 hour	s		
Opt	ion 7: %	6 solids	=	Stabi	lization	method	d:					
V.	AR: sta	bilized s	olids > 75	5%								
Opt	ion 8: %	6 SOIIOS	= d solids >	00%				•				
			er will inje		orate v	within	+	ours				
Opt	AR: inie	ection wi	thin 1 ho	ur, incor	poratio	n within	6 hours	.00.0				
	•											
supervisior submitted.	n in acco	ordance	with a sys inquiry o	tem des f the pe	igned to	o assure r person	that quans who m	lified per anage t	rsonnel p he syste	roperly gat m or the p	ther and eva persons dir	nder my direction aluate the informati ectly responsible
gathering t am aware for knowin	that the	re are si	tne intorm gnificant	nation si penaltie	s for su	a is, to t ibmitting	ne best o g false inf	ormy Kno	owieage i n, includii	and belief, ng the pos	true, accur sibility of fir	rate, and complete ne and imprisonme
Name and	Official	Title <u>:</u>		Mil	ce Lu	ker/	Assista	ant G	eneral	Manage	er	
Phone: (_	909	)9	28–3777	ext. 62	255			_ E-Mail	<u>: lu</u>	kerm@en	wd.org	
,—		•	1.1	) 1								
<b>.</b> .	7	VII	fo Ki	(SI)	1					Da	ite: /0/	2/01
Signature:		ILM	y / W	you.						Da	ue:	

## EASTERN MUNICIPAL WATER DISTRICT

# QUARTERLY SLUDGE REPORT: 7/1/01 to 9/30/01

TEMECULA VALLEY RWRF

		METALS				1	ION-METALS	3	
		ARSENIC				% <b>\</b>	OL REDUCTION	ON	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
8/10/01	6	6	6	6	9/11/01	47.54			
8/13/01	6				9/18/01	56.16			
		CADMIUM			9/25/01	44.07			
Date:	Results:	Minimum	Maximum	Average		AA	MMONIA AS I	1	
8/10/01	1	<b>&lt;</b> 1	1	1	Date:	Results:	Minimum	Maximum	Average
8/13/01	<1				8/13/01	7600	7600	7600	7600
		COPPER				BP1-C	AKE-TOTAL S	OLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
8/10/01	480	430	480	455	7/5/01	16	14.8	18	16.06
8/13/01	430				7/5/01	15.8			
		LEAD			7/5/01	15.6			
Date:	Results:	Minimum	Maximum	Average	7/5/01	15.5			
8/10/01	9	9	9	9	7/16/01	15.4			
8/13/01	9	-			7/16/01	14.8			
0/10/01	J	MERCURY			7/16/01	15			
	5	······	Maximum	Average	7/16/01	15.1			
Date:	Results:	Minimum <3	Maximum <3	average 3	7/23/01	15.8			
8/10/01	<3	<3	<0	3	7/23/01	15.7			
8/13/01	<3	101 VDDENUI			7/23/01	16			
		MOLYBDENUM			7/23/01	16.6			
Date:	Results:	Minimum	Maximum	Average	8/10/01	18 18			
8/13/01	16	16	16	16	8/13/01 8/14/01	16			
		NICKEL			8/15/01	18			
Date:	Results:	Minimum	Maximum	Average	8/16/01	15			
8/10/01	17	15	17	16	8/20/01	16			
8/13/01	15				8/21/01	16			
		SELENIUM			8/22/01	16			
Date:	Results:	Minimum	Maximum	Average	9/18/01	17			
8/10/01	10	9	10	9.5	9/18/01	16			
8/13/01	9						GEOMEAN		
		ZINC			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	8/22/01	88000	88000	88000	88000
8/10/01	480	450	480	465			Org-N (NP)		
8/13/01	450				Date:	Results:	Minimum	Maximum	Average
	1	NON-METAL	S	MALE TRANSPORT	8/13/01	50800	50800	50800	50800
		OL REDUCT			0/10/01	30000	TKN		
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
7/3/01	56.93	40.69	60.06	51.14	8/13/01	58400	58400	58400	58400
7/10/01	54.97								
7/17/01	54.97								
7/17/01	40.69								
7/24/01	54.92								
8/7/01	48.99								
	52.85								
	JE.UJ								
8/14/01	<b>43 00</b>								
8/21/01 8/28/01	43.92 60.06								

Notice and Necessary Information
To be Completed by Preparers of Class B Biosolids

7/1/01 to 9/30/01

HEMET-SAN JACINTO RWRF

Facility Na	ne:	HE	MET-SAN	JACINT	O RWF	RF	Mor	nitoring F	Period	7/1/	01 to 9/30/01	
1. Po	ollutant a	and Nitro	ogen con	centratio	ons (Re	eport res	sults on 1	00% dry	weight b	asis. Atta	ich lab anal	yses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH4-N	% solids
Avg	11.5	2.6	515	29.5	۷3	14.5	16.5	11.34	815	5.29%	0.9%	19.02
Max	∴18	3.2	550	38	<3	16	20	13	890	5.29%	0.9%	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na.	na
Sampling of	iate(s): _	******	7/	1/01 to 9/	/30/01							
ana Ci aero Ci dryin Ci fec Ci lime Ci 3.	erobic diges ass B: stabilizass B: s	igestion ime (day estion for time > 3 rm: geo geometration: po H 2 hours ation: po H 2 hours ational \\ SR = _ R 38% \\ Bench : \text{DUR} = _ 1 tional \\ DUR = _ 1 tional \\ DUR = _ 2 for the solids: bilized solids: stabilized: Applie	ys) ≥ 120 r to ys) ≥ 120 to months: metric mean of the tension after a Reduction 42.73 scale test /SR < 17 5 mg 02/led degrees (	toto	np, deg np, deg np, deg np, deg np, deg np, deg ns, legen ns, lege	days rees C) days at grees C) hs (attack decrees amples: les is < 2 on = is ≥ 12  54.73 a s (anaer eight) nps of w/5 days iter 2 hor ition, ≥ 1 nmethod within within	at	to between to between of date continued in the	n 15 and log deg n 40 and es in and mum)  ys r 30 days log degre d after 22	60 days grees F/C 60 days out) 6 (aerobic) ees F/C (a	(range for p	or past month) past month) //temps)
supervision submitted. gathering t am aware for knowing	n in acco Based he inforr that ther g violatio	rdance of on my mation, the e are signs.	with a sys inquiry o the inform gnificant	tem des f the pe nation su penaltie	igned t rson or ubmitte s for su	o assure r person d is, to t ubmitting	that qua is who m he best o false info	lified per anage tl f my kno ormation	sonnel pr he syster owledge a , includin	operly gat m or the p and belief, ag the pos	her and eva persons dire true, accur sibility of fin	nder my direction o uluate the information ectly responsible fo ate, and complete. se and imprisonmen
Name and	Official	ı itie <u>:</u>			Mike	Luke	- As	sistan	it Gene	ral Ma	nager	
Phone: (_	909	)9;	28–3777	ext. 63	255			_ E-Mail	<u>.</u>	ukerm@	emwd.org	<u> </u>
Signature:		Mi	le x	uk	er	/				Da	te: <u>/ 0 /</u>	12/01

# EASTERN MUNICIPAL WATER DISTRICT

# QUARTERLY SLUDGE REPORT: 7/1/01 to 9/30/01

HEMET-SAN JACINTO RWRF

### **METALS**

### **NON-METALS**

		ARSENIC				BP1-C	AKE-TOTAL S	OLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
7/10/01	18	< 5	18	11.5	7/10/01	18.2	17	21	19.02
8/13/01	<b>&lt;</b> 5				8/13/01	17			
0, 10, 0					8/14/01	19			
		CADMIUM			8/15/01	18			
Date:	Results:	Minimum	Maximum	Average	8/16/01	19			
7/10/01	3.2	2	3.2	2.6	8/20/01	21			
8/13/01	2				8/21/01	20			
		COPPER			8/22/01	20			
Datas	Results:	Minimum	Maximum	Average			GEOMEAN	****	
Date: 7/10/01	550	480	550	515	Date:	Results:	Minimum	Maximum	Average
8/13/01	480	400			8/22/01	80000	80000	80000	80000
6/13/01	400	LEAD					Org-N (NP)		
		LEAD Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
Date:	Results:	21	38	29.5	8/13/01	52900	52900	52900	52900
7/10/01 8/13/01	38 21	21	30	29.5	0/10/01	02000			
0,10,01		MEDOUDY					TKN	Maximum	Aversee
		MERCURY			Date:	Results:	Minimum	Maximum 61900	Average 61900
Date:	Results:	Minimum	Maximum	Average	8/13/01	61900	61900	61900	01300
7/10/01	<3	<3	3	3		VOL	SOL % REDU	CTION	
8/13/01	<3				Date:	Results:	Minimum	Maximum	Average
		MOLYBDENUI	М		7/2/01	50.15	42.73	65.1253663	54.74
Doto	Results:	Minimum	Maximum	Average	7/5/01	55.43			
Date:	16	13	16	14.5	7/9/01	56.48			
7/10/01 8/13/01	13				7/26/01	57.39			
6/13/01	10				7/30/01	54.47			
	.~'	NICKEL			8/2/01	52.38			
Date:	Results:	Minimum	Maximum	Average	8/6/01	65.13			
7/10/01	20	13	20	16.5	8/9/01	61.33			
8/13/01	13				8/10/01	55.56			
					8/13/01	49.24			
		SELENIUM			8/20/01	42.74			
Date:	Results:	Minimum	Maximum	Average	8/23/01	47.62			
7/10/01	9.7	9.69	13	11.35	8/26/01	59.23			
8/13/01	13				8/30/01	54.47			
		ZINC			9/6/01	49.24			
		ZINC			9/10/01	55.43			
Date:	Results:	Minimum	Maximum	Average	9/13/01	56.48			
7/10/01	890	740	890	815	9/20/01	62.62			
8/13/01	740		_						
		NON-METAL	.S						
		AMMONIA AS	N						
Data	Results:	Minimum	Maximum	Average		-		•	
Date:	9000	9000	9000	9000					
8/13/01	9000	3000	2000	,					

# QUARTERLY CERTIFICATION STATEMENTS (October - December, 2001)

# HEMET/SAN JACINTO AND TEMECULA VALLEY REGIONAL WATER RECLAMATION FACILITIES



#### Board of Directors

President Rodger D. Siems

Vice President Richard R. Hall

Marion V. Ashley Randy A. Record

David J. Slawson

Board Secretary Mary C. White

General Manager Anthony J. Pack

Director of the Metropolitan Water District of So. Calif. Marion V. Ashley

Treasurer
Joseph J. Kuebler, CPA

Legal Counsel
Redwine and Sherrill

December 21, 2001

Mr. Mark Grey Synagro of California P.O. Box 7027 Corona, CA 92878-7027

Dear Mr. Grey:

Attached please find the Class B certification statements for the Temecula Valley and Hemet/San Jacinto RWRFs for the reporting period of October 1 through

December 31.

If you have any questions regarding these reports, please contact Jayne Joy at

(909 928-3777ext. 6241.

Sincerely,

Mike Luker

Assistant General Manager, Administration and Maintenance

CC:

David Morycz, Manager of Environmental Services Anne Briggs, Senior Environmental Compliance Analyst

J:\WORDPROC\WP\ENVIRON\BRIGGS\CERTCOVE.SLD

Notice and Necessary Information

To be Completed by Preparers of Class B Biosolids

Facility Na	me:	Т	EMECUL	4 VALLE	Y RWR	F	Мо	nitoring	Period	10/1/	01 to 12/31/0	)1
. Po	ollutant a	and Nitr	ogen con	centrati	ons (Re	eport res	sults on 1	00% dŋ	/ weight I	oasis. Atta	ach lab anal	yses).
	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH <sub>4</sub> -N	% solids
Avg	6.79	1.05	485	8.94	∡3	20	19	8.4	455	5.17%	0.57%	17.04
Max	9	. 1.1	490	10	<3	20	21	11	490	6.59%	0.7%	20
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
Table 1	75	85	4300	840	57	75	420	100	7500	na	na	na
ampling d	ate(s): _		10/	I/01 to 12	2/31/01							
Z aero Cla dryin Cla X feca Cla lime Cla Ve X Optio VA	ass B: till bic diges ass B: til g beds f ass B: til coliforn ass B: g stabiliza ass B: pl ctor Attr ion 1: V R: VSR n 2/3: E R: addi n 4: SO R: stabi n 7: %; R: stabi n 8: %; R: unsta n 9/10: R: injec n: I cer	me (day stion for ime (day stion for ime (day for ime > 3 m: geometrication: ph 2 hou action F SR = imposte	s) ≥ 120  ys) ≥ 120  to _ months: metric me c mean c l at 2 hor rs after a  Reduction  44.38 (a  cale test: SR < 17°  mg 02/h d _ egrees C added: 2 hours a  lids > 75  will inject hin 1 hour der penal	- 3 (tem_to	p, deginp, deg	rees C) (days at trees C) (attack trees	for times for times th records C = 86,000 2,000,000  inimum) fter to > 45 deg urs = 1.5 for acceptance cument a	betweer to to betwees of date company	n 15 and deg n 40 and s in and mum)  /s degre d after 22 22 hours	60 days grees F/C 60 days out)  (aerobic) es F/C (at hours = _	tach times/t	
thering the aware the knowing	e information at there violation	ation, th are sigi	e informa	ation sub enalties	omitted for sub	is, to th mitting	e best of	my know	wledge a including	nd belief. t	rue, accura	ctly responsible te, and complete and imprisonm
Phone: (	7	3-3777 e	ext. 6255	1			E-mai		n(a)emwo			
Signature	e: <u>//</u>	ug	nus	Klr				Ι	Date: 10	2/21/0	7/	

### EASTERN MUNICIPAL WATER DISTRICT

# QUARTERLY SLUDGE REPORT: 10/1/01 to 12/31/01

TEMECULA VALLEY RWRF

		METALS					NON-METAL	S	
		ARSENIC					AMMONIA AS	N	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
10/8/01	9	4.59	9	6.8	10/8/01	4400	4400	7000	5700
11/1/01	4.59				12/10/01	7000			
		CADMIUM				BP1-0	CAKE-TOTAL S	SOLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
10/8/01	<1	1	1.1	1.05	10/8/01	16.6	16	20	17.05
11/1/01	1.1				10/9/01	16			
		COPPER			10/10/01	17			
Date:	Results:	Minimum	Maximum	Average	10/11/01	16			
10/8/01	490	480	490	485	10/15/01	16			
11/1/01	480				10/16/01	16			
		LEAD			10/17/01	16			
Date:	Results:	Minimum	Maximum	Average	10/17/01	16			
10/8/01	10	7.9	10	8.95	11/1/01	20			
11/1/01	7.9	7.5	10	0.95	12/10/01	18			
11/1/01	7.5	MERCURY			12/11/01	19			
<b>D</b> - 4 -			B. 0 1		12/12/01	18			
<b>Date:</b> 10/8/01	Results: <3	Minimum <3	Maximum <3	Average 3	12/13/01	17	GEOMEAN		
11/1/01	<3	ν,	ν,	3		D	······································		
11/1/01		IOLYBDENUI	M.		Date:	Results:	Minimum	Maximum	Average
					10/17/01	86000	86000	86000	86000
Date:	Results:	Minimum	Maximum	Average			Org-N (NP)	***************************************	
10/8/01	20	20	20	20	Date:	Results:	Minimum	Maximum	Average
		NICKEL			10/8/01	37600	37600	65900	51750
Date:	Results:	Minimum	Maximum	Average	12/10/01	65900			
10/8/01	17	17	21	19			TKN		
11/1/01	21				Date:	Results:	Minimum	Maximum	Average
******************************	****	SELENIUM	~~~	***************************************	10/8/01	42000	42000	72900	<b>574</b> 50
Date:	Results:	Minimum	Maximum	Average	12/10/01	72900			
10/8/01	11	5.8	11	8.4					
11/1/01	5.8								
	·····	ZINC		•••••					
Date:	Results:	Minimum	Maximum	Average					
10/8/01	490	420	490	455					
11/1/01	420								
	N	ON-METALS	S						
	% V	OL REDUCTI	ON						
Date:	Results:	Minimum	Maximum	Average					
10/2/01	42.1	39.83	56.47	44.39					
10/9/01	56.47								
10/16/01	39.83								
10/30/01	43.05								
11/6/01	40.25								
11/13/01	47.78								

Notice and Necessary Information

To be Completed by Preparers of Class B Biosolids

	As	Cd	Cu	Pb	Hg	Мо	Ni	Se	Zn	Org-N	NH4-N	% solids
Avg	<b>4</b> 5	1.5	276.5	14.5	<b>4</b> 3	7.5	9	11.5	425.5	5.78%	0.53%	17.29
Лах	<5	2	500	24	<3	13	14	18	770	6.77%	0.98%	21
Table 3	41	39	1500	300	17	na	420	100	2800	na	na	na
able 1	75	85	4300	840	57	75	420	100	7500	na	na	na
ana Cl aero Cl dryin Cl X fec Cl lime Cl X Opti V/ Opti V/ Opti V/ Opti V/ Opti V/ Copti V/ C	erobic di ass B: ti bic dige ass B: fi al colifor ass B: fi al colifor ass B: fi ector Att bition 1: \AR: VSI and 2/3: AR: add AR: SO on 5: C AR: tem on 6: tin AR: yH on 7: % AR: uns on 9/10: AR: inje bn: I ce in acco Based he inforr that ther	igestion ime (day stion for time (day stion for time > 3 im: geo geometr ation: plu H 2 hou raction F /SR = R 38% Bench s litional V DUR < 1.5 composte p > 40 composte p >	ys) ≥ 120  ys) ≥ 120  ys) ≥ 120  months: metric me ic mean of H at 2 ho rs after a  Reduction  43.51 (  scale test SR < 176  of mg 02/r  ed  binder penal with a sys inquiry of the inform	to 3 (tem _ to 4 (ten _ to 4 (ten _ to 4 (ten _ to 4 (ten _ tean of seven urs after ddition of  " " " " " " " " " " " " " " " " " "	p, degraph,	days rees C) days at prees C) ns (attac decrees amples : es is < 2 on = is ≥ 12  53.45 as (anaer eight) nps of v/5 days ter 2 ho ition, ≥ ? method within n within t this do o assure r person d is, to t	at for times ch record c C =	to between to between s between s between c maxion mpn da for da for grees C	ys r 30 days Lattachmer attachmer rsonnel pr he syster	60 days grees F/C 60 days out)  6 (aerobic)  6 ees F/C (aerobic)  7 hours = 1  7 operly gat m or the pand belief,	ttach times.	nder my directly response ate, and imprise
Iame and	l Officia	l Title:		M	iike Lul	ker, Ass	istant Ger	neral Ma	nager			
	00\ 0 <b>2</b> 0	2777	+ 6255				E mail.		(2) 1			
hone: <u>(9</u>	09) 928	<u>-3111 ex</u>	. 6233				E-man.	lukerm	@emwd.c	org	·····	

### EASTERN MUNICIPAL WATER DISTRICT

# QUARTERLY SLUDGE REPORT: 10/1/01 to 12/31/01

**HEMET-SAN JACINTO RWRF** 

### **METALS**

### **NON-METALS**

		ARSENIC				BP1-0	CAKE-TOTAL	SOLIDS	
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
10/8/01	<5	<5	<b>4</b> 5	<b>4</b> 5	10/8/01	18.9	15	21	17.3
10/16/01	<5				10/9/01	18			
		CADMILIM			10/10/01	21			
······································		CADMIUM			10/11/01	16			
Date:	Results:	Minimum	Maximum	Average	10/15/01	17			
10/8/01	2	∡1	2	1.5	10/16/01	17.7			
10/16/01	<1				10/16/01	16			
		COPPER			10/17/01	18			
Date:	Results:	Minimum	Maximum	Average	12/10/01	16			
10/8/01	500	53	500	Average 276.5	12/11/01	17			
10/6/01	53	53	300	276.5	12/12/01	15			
10/10/01	33				12/13/01	17			
		LEAD		_			GEOMEAN		
Date:	Results:	Minimum	Maximum	Average	Date:	Results:	Minimum	Maximum	Average
10/8/01	24	<b>∢</b> 5	24	14.5	10/17/01	61000	61000	61000	61000
10/16/01	<5						Org-N (NP)		
		MERCURY			Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	10/8/01	48010	48010	67700	57855
10/8/01	<3	<3	<b>∢</b> 3	<b>4</b> 3	12/10/01	67700	,00.0	0.700	0,000
10/16/01	<3								
	i	MOLYBDENU	И				TKN		
Date:	Results:	Minimum	 Maximum	Average	Date:	Results:	Minimum	Maximum	Average
10/8/01	13	2	13	7.5	10/8/01	49000	49000	77500	<b>632</b> 50
10/16/01	2	2	13	7.5	12/10/01	77500			
	-					VOL	SOL % REDUC	CTION	
		NICKEL		_	Date:	Results:	Minimum	Maximum	Average
Date:	Results:	Minimum	Maximum	Average	10/1/01	56.48	43.51	67.5675676	53.46
10/8/01	14	4	14	9	10/4/01	55.43			
10/16/01	4				10/8/01	51.14			
		SELENIUM			10/11/01	54.41			
Data	Dan-Ha-		Marian	A	10/15/01	46.88			
Date:	Results:	Minimum	Maximum	Average	10/25/01	53.35			
10/8/01	18	5	18	11.5	10/28/01	55.43			
10/16/01	<5				11/5/01	67.57			
		ZINC			11/15/01	56.48			
Date:	Results:	Minimum	Maximum	Average	11/19/01	44.35			
10/8/01	770	81	770	425.5	11/22/01	43.51			
10/16/01	81	01	770	425.5	11/26/01	56.48			
10/10/01		NON-METALS	S						
		MMONIA AS I	N						
Date:	Results:	Minimum	Maximum	Average					
10/8/01	990	990	9800	5395					

12/10/01

9800

# **APPENDIX C**

FECAL COLIFORM DATA

FOR

CALENDAR YEAR

2001

# **LEGENDS**

Legends for the following laboratory analytical sheets are as follows.

HSJ or HSJ RWRF – Hemet/San Jacinto Regional Water Reclamation Facility

MV or MV RWRF– Moreno Valley Regional Water Reclamation Facility

PV or PV RWRF– Perris Valley Regional Water Reclamation Facility

TV or TV RWRF – Temecula Valley Regional Water Reclamation Facility

					Geomean
					Reported
HSJ-CAKE DAY 7	BP-CAKE	01/18/01	E01011809-01	MPN/gTS	270000
		04/18/01	E01041807-01	MPN/gTS	95000
		06/21/01	E01062109-01	MPN/gTS	130000
	100000000000000000000000000000000000000	08/22/01	E01082207-01	MPN/gTS	80000
		10/17/01	E01101709-01	MPN/gTS	61000
		12/19/01	E01121907-01	MPN/gTS	92000
MV-CAKE DAY 7	BP-CAKE	01/18/01	E01011809-02	MPN/gTS	210000
		04/18/01	E01041807-02	MPN/gTS	130000
		06/21/01	E01062109-02	MPN/gTS	120000
		08/22/01	E01082207-02	MPN/gTS	120000
		10/24/01	E01102410-02	MPN/gTS	177121.
		12/19/01	E01121907-02	MPN/gTS	110000
PVUPMW503-7	PVUPMW-503	10/23/01	E01102311-21	MPN/gTS	51739.
PVUPNW503-7	PVUPNW-503	10/23/01	E01102311-14	MPN/gTS	30352.
PVUPSW503-7	PVUPSW-503	10/23/01	E01102311-07	MPN/gTS	3300
TV-CAKE DAY 7	BP-CAKE	01/18/01	E01011809-03	MPN/gTS	48000
		04/18/01	E01041807-03	MPN/gTS	46000
		06/21/01	E01062109-03	MPN/gTS	79000
		08/22/01	E01082207-03	MPN/gTS	88000
		10/17/01	E01101709-03	MPN/gTS	86000
		12/19/01	E01121907-03	MPN/gTS	100000

# APPENDIX D

NUTRIENT DATA

FOR

CALENDAR YEAR

2001

# **LEGENDS**

Legends for the following laboratory analytical sheets are as follows.

HSJ-RWRF – Hemet/San Jacinto Regional Water Reclamation Facility

MV-RWRF– Moreno Valley Regional Water Reclamation Facility

PVBP-RWRF– Perris Valley Regional Water Reclamation Facility

TV RWRF – Temecula Valley Regional Water Reclamation Facility

# **HSJ-RWRF**

		Ammonia as N	Conductance	Organic-N	Potassium	TKN	TP
		mg/kgDry	umhos/cm	mg/kgDry	mg/kgDry	mg/kgDry	mg/kgDry
		Reported	Reported	Reported	Reported	Reported	Reported
Jan-10-2001	E01011008-01	5800	630	57000	2900	63000	30000
Apr-09-2001	E01040913-01	9900	6900	46400	2400	56256.	35000
Jun-13-2001	E01061309-01	7910	1030	52000	1700	59400	32200
Aug-13-2001	E01081312-01	9000	1120	52900	2000	61900	33000
Oct-08-2001	E01100809-01	990.	2420.	48000	2000.	49000.	27000.
Dec-10-2001	E01121011-01	9800	610	67800	1900	77500	31900

# **MV-RWRF**

		Ammonia as N	Conductance	Organic-N	Potassium	TKN	TP
		mg/kgDry	umhos/cm	mg/kgDry	mg/kgDry	mg/kgDry	mg/kgDry
		Reported	Reported	Reported	Reported	Reported	Reported
Jan-10-2001	E01011009-01	6400	520	61000	4100	67000	27000
Apr-09-2001	E01040914-01	5480	5000	76400	2200	81836.	21000
Jun-12-2001	E01061213-01	6960	740	21000	1900	28400	34700
Aug-13-2001	E01081314-01	9200	1070	54600	2100	63800	33000
Oct-15-2001	E01101510-01	3800	2050	58000	2100	61000	31000
Dec-10-2001	E01121012-01	6800	630	68900	1600	75700	27100

# **TV-RWRF**

		Ammonia as N	Conductance	Organic-N	Potassium	TKN	TP
		mg/kgDry	umhos/cm	mg/kgDry	mg/kgDry	mg/kgDry	mg/kgDry
		Reported	Reported	Reported	Reported	Reported	Reported
Jan-10-2001	E01011010-01	21000	680	45000	3600	66000	29000
Apr-09-2001	E01040915-01	9070	6300	54900	2000	63977.	32000
Jun-12-2001	E01061214-01	8460	740	70000	2100	78400	20800
Aug-13-2001	E01081315-01	7600	1020	50800	1600	58400	25000
Oct-08-2001	E01100810-01	4400.	1920.	38000	2100.	42000.	31000.
Dec-10-2001	E01121014-01	7000	620	65900	2000	72900	32700

# **PVBP-RWRF**

		Ammonia as N	Conductance	Organic-N	Potassium	TKN	Total Nitrogen	TP
		mg/kgDry	umhos/cm	mg/kgDry	mg/kgDry	mg/kgDry	mg/kgDry	mg/kgDry
		Reported	Reported	Reported	Reported	Reported	Reported	Reported
Jun-26-2001	E01062612-01	23000		49420	42000	72400	72400	41100
	E01062612-07	12700		58700	97000	71400	71400	32300
Jul-13-2001	E01071307-01	12000	3210	42070	2400	54000	54000	31441.
	E01071307-02	9050	3640	58520	3400	67600	67600	27093.
Aug-10-2001	E01081107-04	9700	3300	41100	6700.	50800	50800	34000
Aug-24-2001	E01082410-01		930					
Aug-24-2001	E01082410-02		810					
Aug-24-2001	E01082410-03		1070					
Aug-24-2001	E01082410-04					59500		
Oct-03-2001	E01100308-09	3800.		52000	7500.	56000.	56000.	33000.
	E01100308-10	3900.		28000	7200.	31000.	31000.	33000.
	E01100308-11	4900.		18000	7600.	23000.	23000.	33000.

# **APPENDIX E**

CLASS A BIOSOLIDS DATA

FOR

CALENDAR YEAR

2001

#### EASTERN MUNICIPAL WATER DISTRICT

Date: December 12, 2001

**To:** Anne Briggs, Regulatory Compliance

From: John Jannone, PVRWRF/Water Reclamation Department Subject: Land Application of Class A Sludge December 2001

462 tons of Pasteurized Class A sludge produced at the PVRWRF which has been solar dried was applied on 74.5 acres located at the west end of the PVRWRF site on December 5, 6 and 7, 2001. The farmer, Pedro Indacochea, produced a combination of crops on this parcel which included three alfalfa cuttings and one sudan grass crop between January 6,2001 and December 1, 2001.

#### ESTIMATE OF SLUDGE TO BE LAND APPLIED DECEMBER 2001

Month/Year	Pasteurized Wet Tons Applied	Dry Tons	Percent Solids
December 2000	859	135.7	15.8
January 2001	860	129.9	15.1
February 2001	528	82.3	15.6
March 2001	251	40.1	16.0
Totals	2498	388.0	

All of the pasteurized sludge described above was placed in one pile labeled PVPP SE503 and was tested for total solids which averaged 92.8%. By calculation (388 dry tons/.928 = 418 tons) there were 418 tons of pasteurized sludge to be removed.

Sanchez Hauling provided three weight tickets with gross, tare and net weights of the first three loads applied. Each of the 41 trucks was filled with the same amount of loader loads in order to best determine actual amount of sludge applied. The average net weight of the sludge was 22,520 pounds(11.26 tons per load) for a total of 461.66 tons applied.

The discrepancy between the theoretical 418 tons to be removed and the 462 tons actually removed can be accounted for in laboratory testing especially if percent solids removed was a more realistic 84% verses the 92.8% per test results. Also, initial dry ton amounts were determined from meter reads and laboratory testing of WAS grab samples.

Sludge application Rate calculation for 74.5 acres(Township/Range/Section is T.5S.R.3) located at the western portion of the PVRWRF site is as follows:

Background nitrate for samples taken on 8-14averaged 26.4 mg/kgDry.

Nitrate numbers are being used for calculation per determination that ammonia is not in usable form.

The farmer, Pedro Indacochea, will grow alfalfa during the next calender year. According to the Western Fertilizer Handbook eight edition(page 98), the application rate for Nitrogen is 480 lbs N per acre.

Background Nitrogen Calculation:

26.4mg/KG x 0.00135 tons soil/acre-ft x 0.5ft(application soil depth) x 2000lb/ton =

35.64 lbN/acre

Can apply 480 lbN/acre - 35.64 lbN/acre = 444.36 lbN/acre

Nitrogen background of sludge to be applied is 5.4%

 $0.054N \times 2000lb/ton = 108 lbN/ton$ 

Mineralization rate Calculation:

108lbN/ton x 0.928% solids x 0.3(mineralization rate) = 30.1lbN/ton

444 lbN/acre / 30 lbN/ton = 14.8 tons sludge/acre

Can apply at a rate not to exceed 9.5 tons per acre so maximum amount to be applied is:

74.5 acres x 9.5 tons/acre = 707.8 tons can be applied which is well below the 250-480 ton range described above.

### The 462 tons applied was well within the 707.8 ton limit for this parcel.

Attached you will find:

- \* Salmonella test results
- \* Percent solids and metals testing results
- \* Background nitrogen
- \* PVRWRF sludge production records 2000 and 2001
- \* Sanchez Hauling weight tickets
- \* Sanchez hauling billing statement

### Jannone, John

From: Marshall, Kenneth

Sent: Tuesday, August 14, 2001 2:10 PM

To: Jannone, John Subject: RE: Lab Results

# Sorry John... I overlooked getting these to you.

		Nitrate as N	TKN	Total Solids
		mg/kgDry	mg/kgDry	%
30-Jul-2001	PV 74 SOUTH	4.3	700	90.
30-Jul-2001	PV 74 MID	44.	290	88.
30-Jul-2001	PV 74 NORTH	31.	1100	95.
30-Jul-2001	PV 127 EAST	39.	1540	87.
30-Jul-2001	PV 127 MID	21.	2020	87.
30-Jul-2001	PV 1127 WEST	42.	1380	88.

----Original Message----From: Jannone, John

Sent: Tuesday, August 14, 2001 10:49 AM To: Marshall, Kenneth

Subject: Lab Results

I was wondering if results were in for samples delivered to you 7/31/01. They were labeled PV74South, PV74Mid, PV74North, PV127East, PV127Mid, PV127West. Thanks

#### Eastern Municipal Water District Certificate of Analysis Perris Valley RWRF

Sample Id: Client Id:

E01071307-01 E01071307-02

PVPP SE503-1,2,3 MIX PVPP SW503-1,2,3 MIX PVPP SE503-1

E01071307-03

E01071307-04 PVPP SE503-2 E01071307-05 E01071307-06 PVPP SE503-3

PVUP SW503-1

Site: PVBP-RWRF PVBP-RWRF
Collect Date: 13-JUL-01 13-JUL-01

PVBP-RWRF 13-JUL-01

PVBP-RWRF 13-JUL-01

PVBP-RWRF PVBP-RWRF 13-JUL-01 13-JUL-01

	COTTECT Date: I3-00E-01		10F-01	13-0UL=01 13	JUL-01	13-JUL-01 13-JUL-01			
arameter	Units	Value	Value	Value	Value	Value	Value		
Total Nitrogen	mg/kgDry	54000	67600						
Total Kjeldahl Nitrogen	mg/kgDry	54000	67600						
Ammonia as N	mg/kgDry	12000	9050						
Total Phosphate as P	mg/kgDry	31441.	27093.						
Electrical Conductance	umhos/cm	3210	3640						
Salmonella	MPN/4gm			< 1:0	< 1.0	< 1.0	680		
Organic-Nitrogen	mg/kgDry	42070	58520						
рН	units	7.5	7.2						
Total Solids	8	91.9	94.7	92.0	93.2	933	94.		

Approved By:

# PVRWRF SLUDGE PRODUCTION RECORDS FOR 2000

### SLUDGE PRODUCTION RECORDS FOR 2000

MONTH	Pasteurized	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	ALICHOT	05050				
Total Pounds	rasieunzed	0	216,724	153,930	340,883				AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOT
Total Tons	•	0				410,276	425,698	325,536	372,432	352,949	294,385	227,533	271,389	
		0	108.4	77	170.4	205	213	162.8	186	176	147.2	. 113.7	135.7	(C
Percent Solids		0	17	17	15.6	14.9	14.7	14	14.1	14.7	16.1	•		1
Wet Tons	Unnestante	0	638	453	1092	1376	1449	1163				15.7	15.8	
_	Unpasteurized dirt drying beds						1440	1103	1311	1197	914	725	859	11,1
Total Pounds		0	40,713 、	23,587	0	0	0	60,992	0	13,090	70 500			
Total Tons		0	20.4	11.8	0	0	0	30.5			78,536	30,541	103,316	
Percent Solids		0	15.6	15.6	0				0	6.5	<b>39.3</b> '	15.2	51.7	
Wet Tons	**				U	0	0	13.4	0	15.2	13.3	13.9	14.5	
Wet Tons	Unpasteurized	0	131	76	0	0	0	228	0	43	296	110	356	1,24
Total Pounds	to Synagro	412,520	96,415	135,950	00 000	_							555	1,2.
Total Tons					63,862	0	0	0	0	0	10,765	100,303	49,300	
		206	48.2	70	30.5	0	0	0	0	0	5.4	50.2	24.7	
Percent Solids	•	14.2	15.6	15.2	13.6	0	0	0	0	0				
Wet Tons		1451	309	461	235	0	0				14.5	13.9	14.5	
						v	U	0	0	0	37	361	170	3,02
													Total wet tons	

all catagories for 2000

15,4

монтн	Pasteurized	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Total Pounds	Pasteurized	259,709	164,564	80,256	0	0	0	0	0	0	0			
Total Tons		129.9	82.3	40.1	0	0	0	0	0	0	O			
Percent Solids		15.1	15.6	16	0	0	0	0	0	0	0			
Wet Tons	Unpasteurized	860	528	251	0	0	0	0	0	о о	0			1,639
Total Pounds	dirt drying beds	73,690	105,432	44,394	0	0	0	0	0	0	0			
Total Tons		36.8	52.7	22.2	0	0	0	0	0	0	0			
Percent Solids		13.8	13.8	14.7	0	0 .	0	0	0	0	0			
Wet Tons	Unpasteurized to Synagro	267*	382*	151*	0	0	0	0	0	0	0			800
Total Pounds	to Synagro	61,374	93,564	248,000	215,600	204,400	181,256	212,600	198,000	268,800	233,200			
Total Tons		30.7	46.8	124	107.8	102.2	90.6	106.3	99	134.4	116.6			
Percent Solids		13.5	13.8	14.7	14	14.2	13.9	13.2	13.9	14	13.1			
Wet Tons	Unpasteurized	227	339	843	770	720	652	805	712	960	897			6,925
Total Pounds	to Asphalt	0	0	163,170	209,158	62,400	270,216	303,000	362,600	265,739	270,800			
Total Tons		0	0	81.6	104.6	31.2	135.1	151.5	181.3	132.9	135.4			
Percent Solids		0	0	14.7	14	14.2	13.9	13.2	13.9	14	13.1			
Wet Tons		0	0	555	747	219	972	1148	1305	949	1027			6,922
*Dirt drying Distribution	Bed #1	Bed #2	Bed #3	Bed #4	Bed #5	Bed #6	Bed #7	Bed #8	Bed #9	Bed #10	Bed #11	Bed #12	Total wet tons all catagories	16,286
January	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	for 2001	10,200
February	0	0	101 wet tons	0	0	281 wet tons	0	0	0	0	0	0		
March	0	23 wet tons	70 wet tons	58 wet tons	0	0	0	0	0	0	0	0		
April	0	0	0	0	0	0	0	0	0	0	0	0		
May	0	0	0	0	0	0	0	0	0	0	0	0		
June	0	0	0	0	0	0	0	0	0	0	0	0		
July	0	0	0	0	0	0	0	0	0	0	0	Ō		
August	0	0	0	0	0	0	0	0	0	0	0	0		
September	0	0	0	0	0	0	0	0	0	0	0	0		
October November December	0	0	0	0	0	0	0	0	0	0	0	0		

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